SONY

3-769-331-22 (1)

# INTEGRATED TELEPHONE ANSWERING MACHINE

# IT-A550
# IT-A650

## OPERATING INSTRUCTIONS

Before operating the unit, please read this manual thoroughly and retain it for future reference.

Photo: IT-A650

GETTING READY

USING AS A TELEPHONE

ANS
USING AS A TELEPHONE ANSWERING MACHINE (AND TO RECORD CALLS)

REM
REMOTE CONTROL FUNCTIONS

C 1987 by Sony Corporation

# SPECIAL FEATURES OF THIS UNIT

For instructions on using your unit as a telephone, see the pages with this mark.

For instructions on using your unit as a telephone answering machine or to record calls, see the pages with this mark.

For instructions on using your unit's remote control functions, see the pages with this mark.

**Automatic dialing** see p. 16, 17
You can memorize 10 frequently-called phone numbers and call them with one touch of the button.

**Automatic redialing** see p. 14, 15
Conveniently redial when the line is busy.

**On-hook dialing** see p. 12, 13
Dial without picking up the receiver.

**Speakerphone (IT-A650 only)** see p. 14, 15
Carry out your entire call without picking up the receiver.

**Hold function** see p. 18, 19
You can put a caller on hold.

**Pulse/tone mode selection** see p. 8, 9
Use this unit no matter what your telephone line connection setup.

**TONE button for "mixed dialing"** see p. 20, 21
Use "alternative long distance" (MCI etc.) even with a pulse (dial) type setup.

**Double Microcassette™ system** see p. 23
Your Greeting and callers' recorded messages are on separate tapes.

**Two Types of Greetings are possible** see p. 23~25
Type A requests messages from callers, B greets callers when recording space is used up.

**Recording calls in progress is possible** see p. 34, 35
Helps you to remember facts later.

**Send pre-recorded messages during conversation** see p. 36, 37
Play back a recorded message during your conversation.

**MESSAGE TRANSFER mode** see p. 42, 43
When you are out, will relay callers' messages to you at an outside phone.

**Remote control operation** see p. 46, 47
You can operate many of the unit's features when calling from a pushbutton-type outside phone.

## OWNER'S RECORD

The model and serial numbers are located at the bottom. Record these numbers in the space provided below.
Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. _____ Serial No. _____

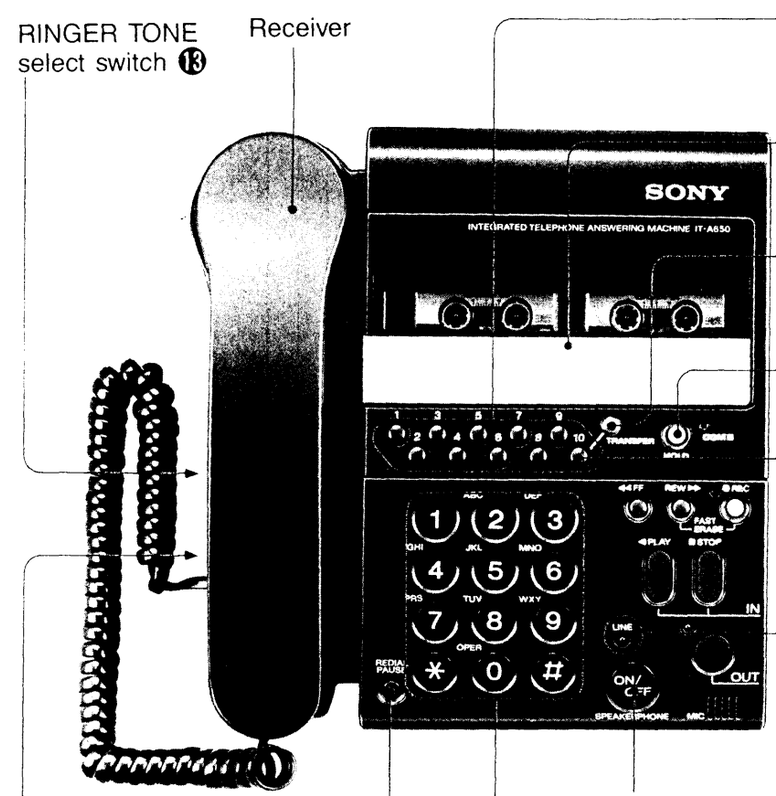
# TABLE OF CONTENTS


| | | |
|---|---|---|
| | Location and function of controls | 2 6 |
| GETTING READY | Getting ready: 1-2 (connections/switching the dialing mode) | 7~10 |
| | Regulations, precautions and important information | 11 |
| USING AS A TELEPHONE | To make a phone call | 12 |
| | To adjust the phone's ring | 13 |
| | To dial without picking up the receiver (on-hook dialing) | 12 13 |
| | To dial and speak without picking up the receiver (speakerphone) | 14 15 |
| | Automatic redialing | 14 15 |
| | Automatic dialing | 16 17 |
| | To put a call on hold | 18 19 |
| | To use "alternative long distance" (MCI etc.) and other tone-based services | 20 21 |
| USING AS A TELEPHONE ANSWERING MACHINE (AND TO RECORD CALLS) | What can an answering machine do? | 22 |
| | Getting ready 1-3 (inserting cassettes, recording Greetings, setting recording time) | 23~27 |
| | When you go out (using as an answering machine) | 28~31 |
| | To listen to recorded messages from callers | 32 33 |
| | To record a call in progress | 34 35 |
| | To send a recorded message by phone | 36 37 |
| REMOTE CONTROL FUNCTIONS | What can you do by remote control? | 38 |
| | How does the message transfer system work? | 39 |
| | Getting ready: 1-2 (memorizing code number, setting MESSAGE TRANSFER mode) | 40~43 |
| | To listen to a recorded message at an outside phone using the MESSAGE TRANSFER mode | 44 45 |
| | To use remote control features from an outside phone | 46 47 |
| | To switch on the OUT mode by remote control | 48 |
| | Maintenance •Specifications •Troubleshooting | 50~53 |

# LOCATION AND FUNCTION OF CONTROLS

For detailed instructions see the page indicated in the ●.

## TELEPHONE SECTION


RINGER TONE select switch ⓭
Receiver
MEMORY buttons
Use these buttons to store numbers you call frequentl automatic dialing.
Directory label ⓰
TRANSFER indicator ㊷
HOLD button ⓲
This button is also used for the MESSAGE TRANSFER function. ㊸
LINE indicator lamp ⓬
ON/OFF button ⓬⓮
Press this button to make an outgoing call using:
—the on-hook dialing function
—the speakerphone function (IT-A650 only)
RINGER LEVEL select switch ⓭
Dialing keys ⓬
REDIAL/PAUSE button ⓮
SONY
INTEGRATED TELEPHONE ANSWERING MACHINE IT-A650

## ANSWERING MACHINE/RECORDER SECTION

◀◀ FF (fast forward) button 33
For the ICM (In-Coming Message) tape.

▶▶ REW (rewind) button 33
For the ICM (In-Coming Message) tape.

● REC (record) button and indicator lamp 24

◀ PLAY (playback) button 32

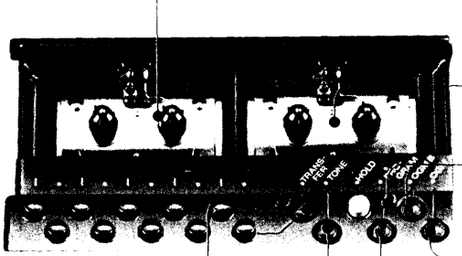
■ STOP/IN button 24
Press this button to cancel the OUT mode, or to stop either tape during playback or recording.

VOLUME control (for voice speaker)

Built-in microphone

OUT button and indicator lamp 29

ICM cassette compartment 23
For the tape used to record In-Coming Messages.




OGM cassette compartment 23
For the tape on which you record your Out-Going Messages (Greetings), Type A and B.

OGM B button and indicator lamp 28

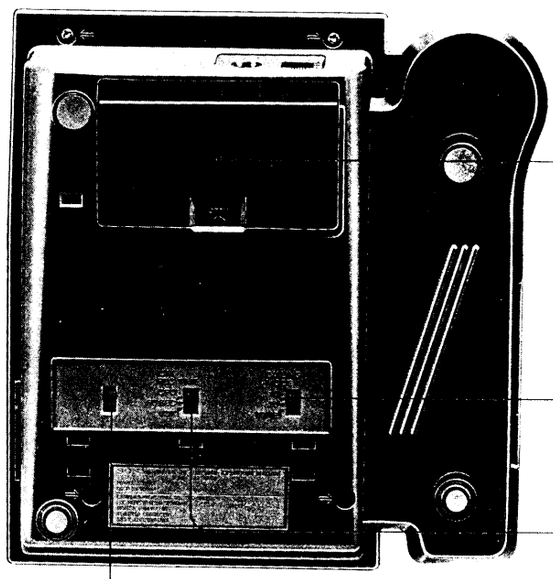
OGM button 24

PROGRAM button 16

TONE button 20

TRANSFER button and indicator 42

## BOTTOM



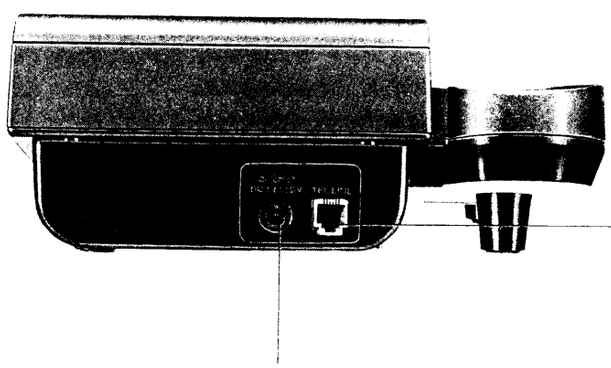
Battery compartment
Use 4 size AA (R6) batteries.

DIALING MODE select switch ❽

ICM REC (In-Coming Message Recording) TIME select switch ㉗
Select the recording time available for incoming messages with this switch.

RINGER SELECT swtich ㉚, ㊻

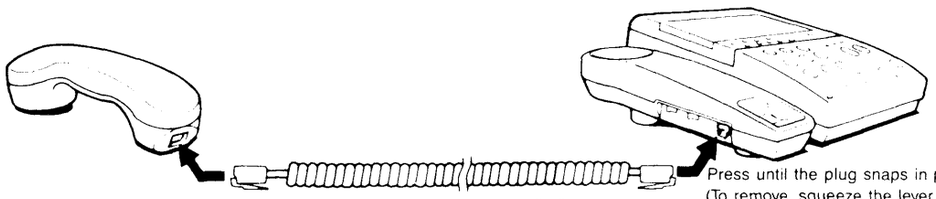
## REAR



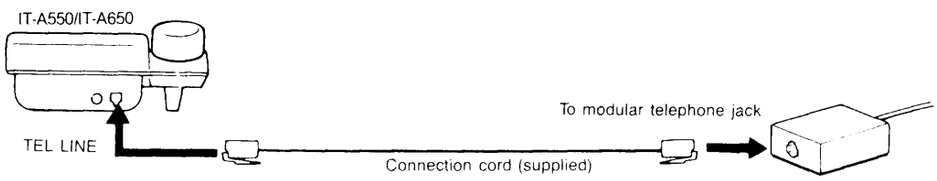
TEL (telephone) LINE jack ❼
Insert plug of connection cord (supplied) to connect the unit to the telephone line (where a wall outlet is available).

DC IN 14.5 V (external power input) jack ❼
To run your unit on ac power, connect the plug of the ac power adaptor (supplied) to this jack.

## TO CONNECT THE RECEIVER TO THE MAIN UNIT




## TO CONNECT UNIT TO THE TELEPHONE LINE (where wall outlet is available)



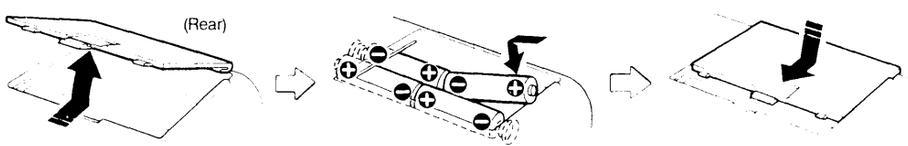

Consult the telephone company if your house is not supplied with a modular telephone jack.

## TO CONNECT UNIT TO ELECTRICAL OUTLET

Use only the supplied ac power adaptor. In case of accident or malfunction, take the unit to an authorized Sony service station.

## TO INSTALL BATTERIES FOR MEMORY BACKUP AND DIALING BACKUP

Insert 4 size AA (R6) batteries.

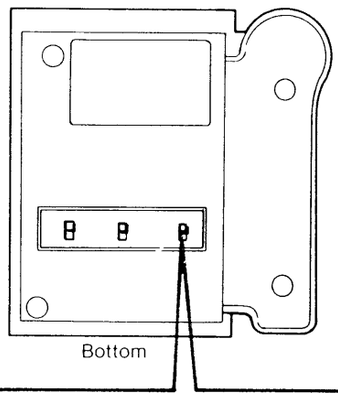


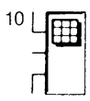

Change batteries regularly at least once a year. If you use the unit without batteries or if batteries are weak, all memorized bata will be erased and the dialing function and the telephone answering function will not activate if a power interruption occurs.

• See page 10 for precautions concerning batteries.

# GETTING READY 2: SWITCHING THE DIALING MODE

Telephone line setups are divided into two types: pulse (dial) and tone (pushbutton). The system used in your home is determined by contract between you and your local phone company. **This telephone can be used as either a pulse or a tone phone.** Use the DIALING MODE select switch on the bottom of the unit to select the mode you wish.




**10:** For the 10 PPS (pulse-per-second) dialing rate of a pulse-type telephone.

**20:** For the 20 PPS (pulse-per-second) dialing rate of a pulse-type telephone.

**TONE:** For a tone-type telephone.

**If you select the wrong dialing mode**
You may be unable to dial calls at all, or you may be connected to the wrong number.
- DO NOT change the setting while you are in the middle of a telephone call.

## IMPORTANT INSTRUCTIONS TO USERS

Your IT-A550 or IT-A650 model has been approved by the Federal Communications Commission (FCC) as not being harmful to the telephone network when connected directly to the telephone lines. In order to fully comply with the Rules of the FCC, the following instructions should be read carefully and followed completely where applicable:

1 The FCC Rules require that all direct connection to the telephone lines must be made through standard plugs and jacks. No connecting can be made to party lines or coin lines. Prior to connecting your device to the line:

a) Upon request from your telephone company, you must provide the 14 digit FCC Registration Number and Ringer Equivalence Number, both of which are on the label located on the outer surface of your telephone.

b) After the telephone company has installed the jack, you can connect your IT-A550 or IT-A650 model by inserting the mating plug of your equipment into this jack.

c) All repairs must be accomplished as described in the "Service requirements" on page 10.

d) The REN is useful to determine the quantity of devices you may connect to your telephone line and still have all of those devices ring when your number is called. In most, but not all areas, the sum of the RENs of all devices should not exceed five (5.0). To be certain of the number of devices you may connect to your line, as determined by the REN, you should call your local telephone company to determine the maximum REN for your calling area.

2 If it apperars that your IT-A550 or IT-A650 model is malfunctioning, it should be disconnected from the telephone line until it can be determined whether your IT-A550 or IT-A650 model is the source of the trouble or not. If your unit needs repair, it should not be reconnected until such repairs have been made.

3 If harm does occur, the telephone company shall, where practicable, notify you, the customer, that temporary discontinuance of service may be required; however, where prior notice is not practicable, the telephone company may temporarily discontinue service forthwith, if such action is reasonable in circumstances. In case of such temporary discontinuance, the telephone company shall (1) promptly notify you, the customer, of such temporary discontinuance (2) afford you, the customer, the opportunity to correct the situation which gave rise to the temporary discontinuance, and (3) inform you, the customer, of your right to bring a complaint to the Commission pursuant to the procedures set forth in the Rules.
Procedures for filing the complaints can be obtained from your local dealer, or if necessary, by writing directly to the manufacturer.

## SERVICE REQUIREMENTS

If your IT-A550 or IT-A650 model should malfunction, all repairs will be performed by an authorized Sony Service Station. This unit has been registered within the FCC for direct connection to the telephone network. Under the FCC program, no customer is authorized to repair this unit. This applies to a unit in and out of warranty. If an unauthorized repair is performed, the registration of the unit for direct connection to the network will be null and void. If the unit is still in warranty, the remainder of the warranty period will also be null and void.
It is the responsibility of users requiring service to report the need for service to their Sony dealer.

## IMPORTANT NOTICE

This telephone does not provide magnetic coupling to hearing aid and is prohibited for use by FCC rules in the following locations.

1 Places where a person with impaired hearing might be isolated, such as elevators, highways, tunnels, etc.
2 Hospital rooms, residential health care facilities, convalescent homes, and prisons, specifically where telephones are used for signalling life-threatening or emergency situation if alternative means of signalling are not available.
3 Places where telephones are specifically installed to alert emergency authorities such as police, fire or medical assistance personnel.
4 Workstations for hearing impaired employees.
5 Places in which visits by public are reasonably expected, such as lobbies of hotels, motels, apartment buildings, public transportation terminals, stores, etc.
6 Hotels and motels where fewer than ten percent of the rooms contain hearing-aid compatible telephones or contain no jack for plug-in hearing-aid compatible telephones.

## PRECAUTIONS CONCERNING BATTERIES

Incorrect battery usage may lead to leakage of battery fluid or bursting of batteries. To prevent such accidents, observe the following precautions:

- Install the + and – poles of the batteries correctly.
- When installing batteries, do not mix new and used batteries, or batteries of different types.
- Do not try to recharge batteries.
- When you will not be using the telephone for a long period of time, remove the batteries. If a battery leak should develop, carefully and thoroughly wipe away battery fluid from the battery compartment.

## PRECAUTIONS

### Power Source

- Operate the unit only on 14.5 V dc. Use the supplied ac adaptor to connect the unit to a wall electrical outlet.
- Plug the unit into a wall outlet which has a continuous power supply. Avoid outlets where power may be cut off.

### AC power adaptor

- Do not unnaturally bend or crimp the connection cord, or place heavy objects on top of it. Damage to the cord may result in fire or electric shock.
- Do not use cut or damaged connection cords.
- When removing the ac adaptor from the outlet, pull the adaptor plug itself. DO NOT pull the cord.

### Foreign matter

Keep foreign matter away from the phone. Especially avoid inserting foreign matter in the DC IN 14.5 V jack.

### Locating the unit

Avoid locating the phone in places which are:

- Near a television or audio amplifier
- Unstable
- Subject to strong vibrations
- Subject to high humidity, and/or poor ventilation
- Dusty
- Subject to direct sunlight and/or high temperatures
- Subject to extremely low temperatures
- Near an audio speaker, or otherwise subject to strong magnetism.

## INFORMATION

This equipment generates and uses radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio and television reception. It has been type tested and found to comply with the limits for a Class B computing device in accordance with the specifications in Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

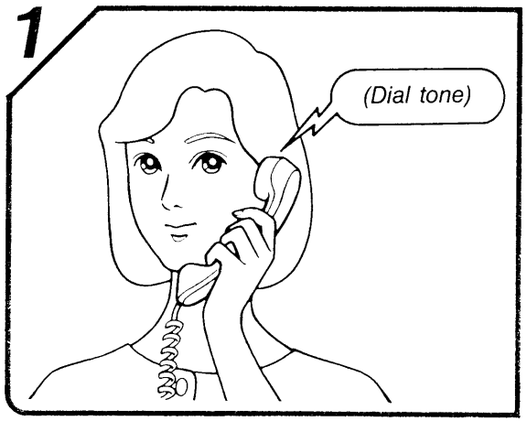
— reorient the receiving antenna
— relocate the equipment with respect to the receiver
— move the equipment away from the receiver
— plug the equipment into a different outlet so that equipment and receiver are on different branch circuits.

If necessary, the user should consult the dealer or an experienced radio/television technician for additional suggestions. The user may find the following booklet prepared by the Federal Communications Commission helpful:

"How to Identify and Resolve Radio-TV Interference Problems".

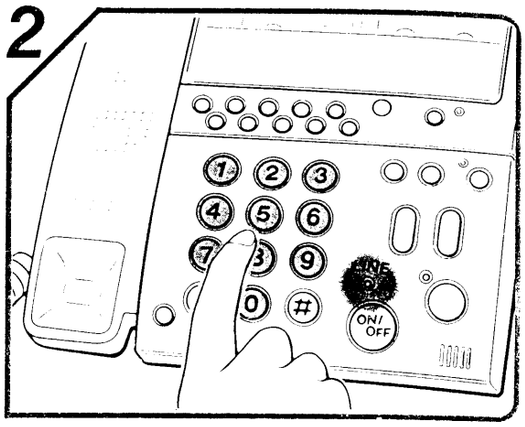
This booklet is available from the U.S. Government Printing Office, Washington, DC 20402, Stock No. 004-000-00345-4.

# TO MAKE A PHONE CALL




**Pick up the receiver.**
The LINE lamp will light up.

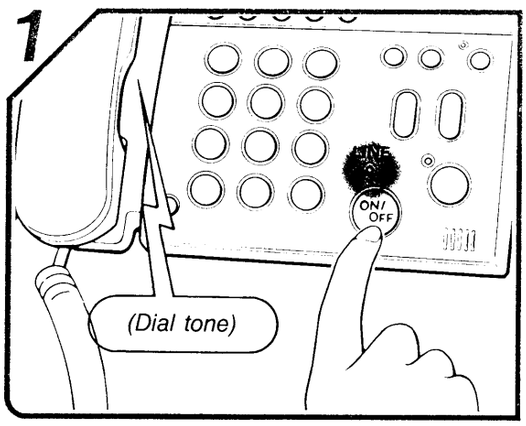
If the LINE lamp does not light up, make sure the AC power adaptor is securely connected. (see p. 7)




**Dial.**

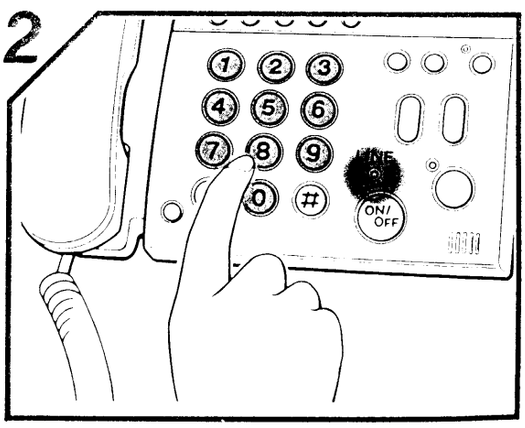
**Press buttons firmly**
Lightly touching the buttons will not make the number register.

# TO DIAL WITHOUT PICKING UP THE RECEIVER




**Press ON/OFF.**
The LINE lamp will light up.

You can also use automatic redialing (see p. 14) and automatic dialing (see p. 16) without picking up the receiver.

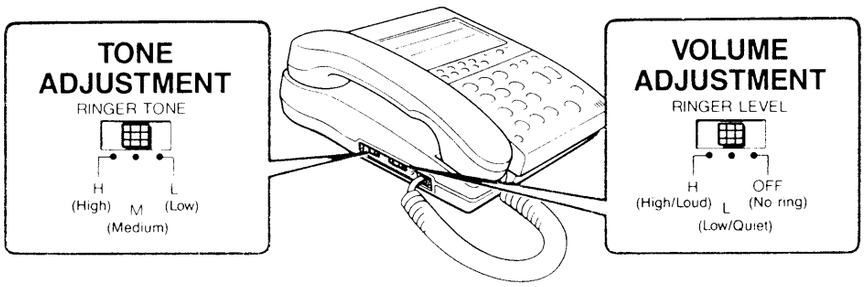



**Dial.**

**If you misdial**
Press ON/OFF. (This will, in effect, "hang up" the phone: the LINE lamp will go off.) Then redial.

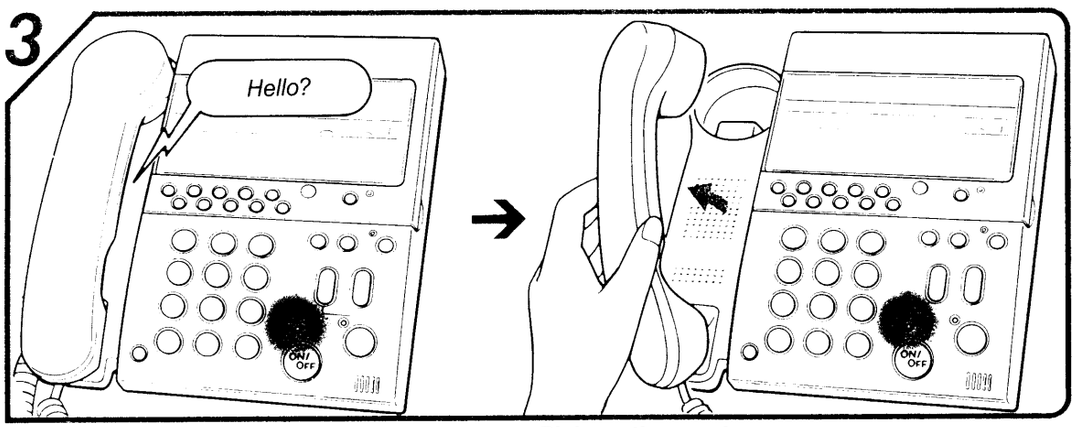
# TO ADJUST THE PHONE'S RING

You can adjust the way the phone rings, both the tone quality and the volume. Select from 3 adjustments for each.






## (ON-HOOK DIALING)



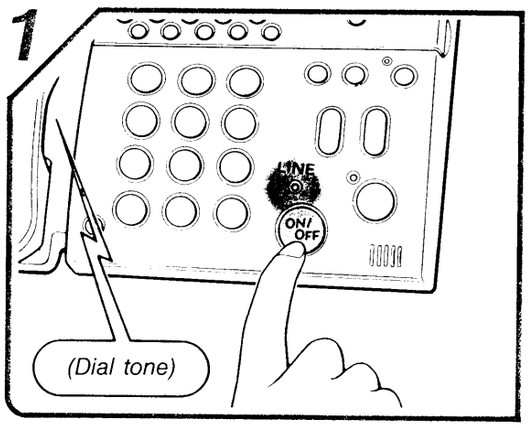

**When the phone is answered on the other side...**

**Pick up the receiver.**

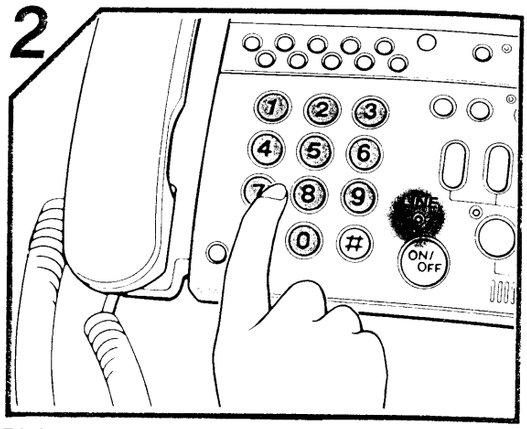
**To "hang up" before your call is answered**
Press ON/OFF. The LINE lamp will go off.

**To listen from the speaker after picking up the receiver**
Press ON/OFF so that the LINE lamp flashes and then put the receiver back on the hook. You can listen to the other person's voice from the speaker. (With IT-A550, you must pick up the receiver again to speak.)

# TO DIAL AND SPEAK WITHOUT PICKING UP




**Press ON/OFF.**
The LINE lamp will light up.



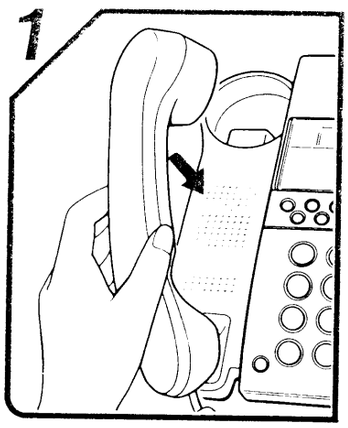

**Dial.**

**For best speakerphone results**

- If you speak in a low voice, at the same time as the person on the other end, you may not be audible. Wait until the other person has completely finished speaking before replying.
- Noise in the room may drown out the other person's voice. In such cases, do not use the speakerphone function.
- Do not bring your hand or other object too close to the microphone. This will result in a shrill noise (howling).
- When speaker volume is loud, or the telephone has been placed close to a wall, you may find that the volume drops suddenly. This is due to a circuit in the telephone designed to protect against howling. In such cases, lower the volume

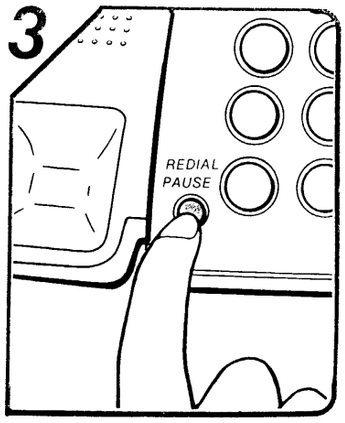
# AUTOMATIC REDIALING

If the line is busy when you call someone, or you want to call someone you just called again, there is no need to dial the number.




**Put the receiver back on the hook.**

**Pick up the receiver.**
You can also use the "on-hook" dialing procedures explained on p. 12, 13.

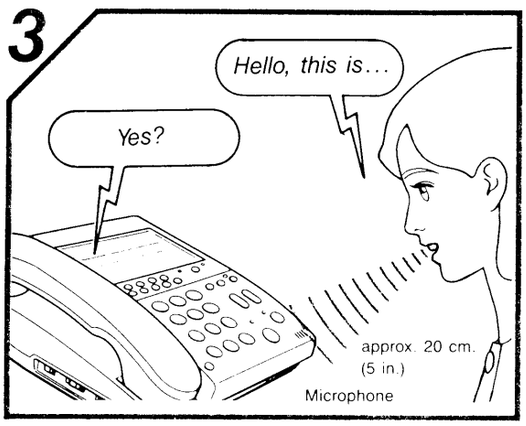



**Press REDIAL/PAUSE.**
The last previously dialed number will be dialed again automatically.

When you have just used alternative long distance or any other of the "tone-based services" described on p. 20, 21, you cannot use automatic redialing.

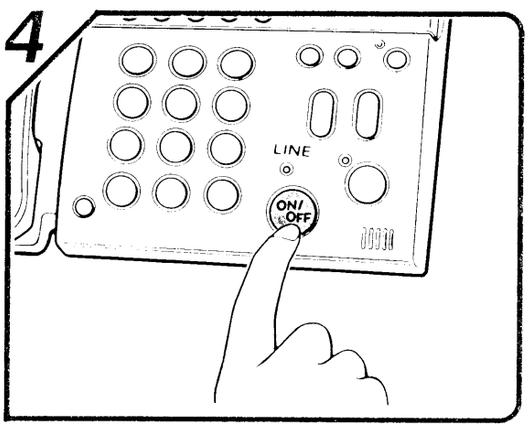
Automatic redialing is not possible with phone numbers more than 16 digits long.

# THE RECEIVER (SPEAKERPHONE) (IT-A650 ONLY)




**Speak into the microphone.**
Adjust speaker volume with the VOLUME control (on the right side).

slightly, or move the telephone away from the wall.
- You can also speak through the receiver. To return to the speakerphone mode, press ON/OFF so that the LINE lamp flashs and then put the receiver on the hook.

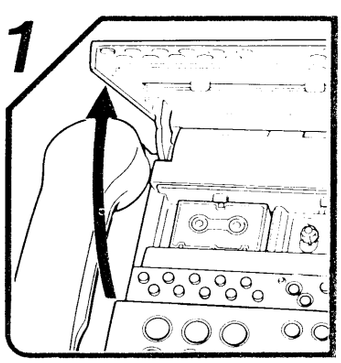



**When you have finished your conversation, press ON/OFF.**
The LINE lamp will go off.

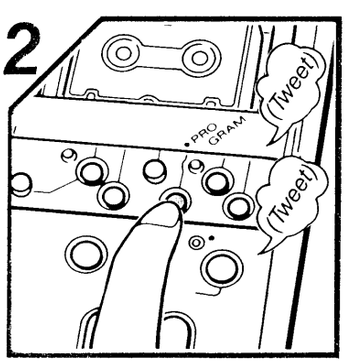
**Using speakerphone to receive a phone call**
Follow the procedures above, leaving out step 2 (dialing).



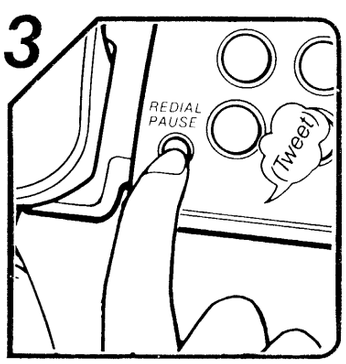
## TO KEEP YOUR LAST PREVIOUSLY DIALED NUMBER CONFIDENTIAL




**Put the receiver back on the hook. Open the cover.**




**Press PROGRAM twice.**




**Press REDIAL/PAUSE.**
The "redial number" will be erased from memory.

# AUTOMATIC PHONE DIALING

Numbers that you frequently call can be memorized for instant dialing. Up to 10 numbers can be stored in memory.

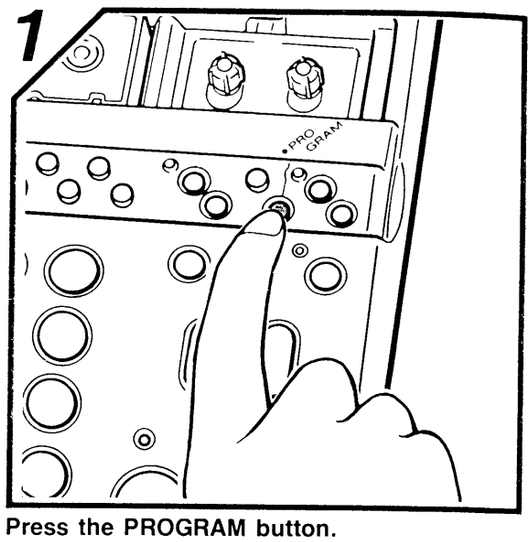
## TO MEMORIZE PHONE NUMBERS

### Preparation

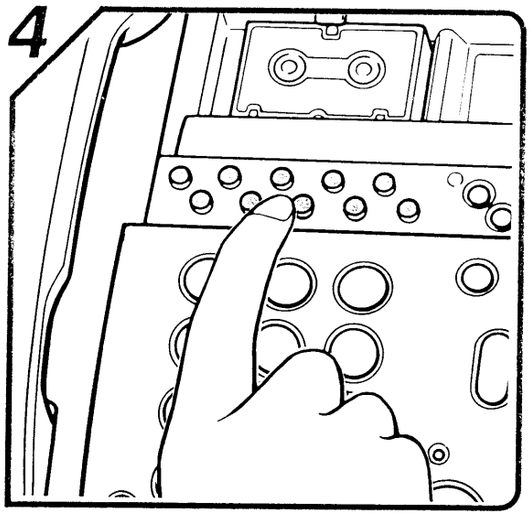
**1** Make sure the receiver is on the hook.

**2** If the LINE lamp is lit, push the ON/OFF button. The lamp will go out.

**3** If the OUT lamp is lit, push ■ STOP. The lamp will go out.

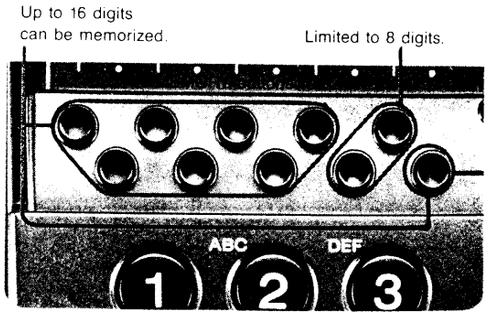



**Press the PROGRAM button.**

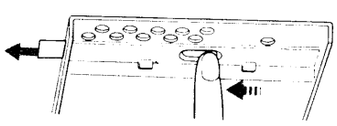



**Press the desired memory button to memorize the phone number just entered.**

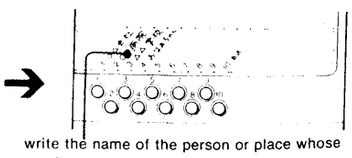
### LIMITS TO THE NUMBER OF DIGITS MEMORIZED



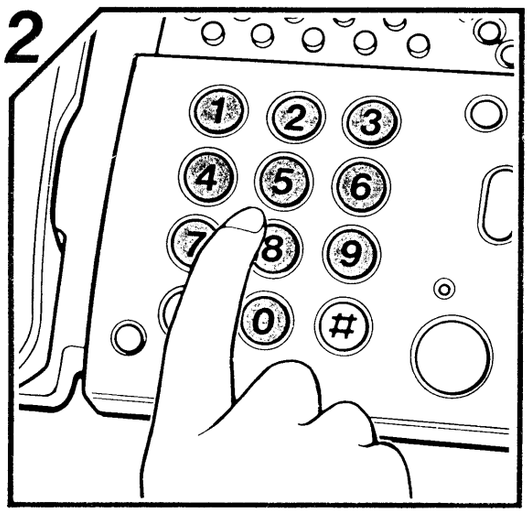

**To help remember memorized numbers**
Use the directory label.



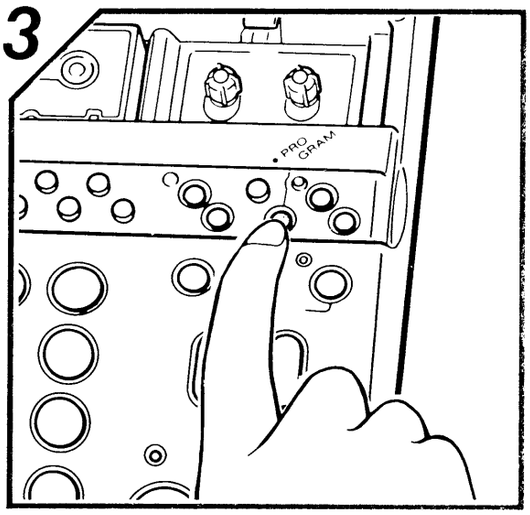
Slide the card out,



write the name of the person or place whose number you have memorized on the space corresponding to the memory button and then replace the card.

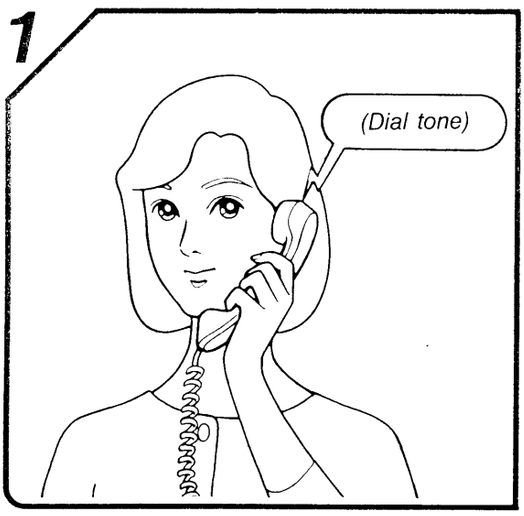



**Enter the phone number you wish to memorize.**

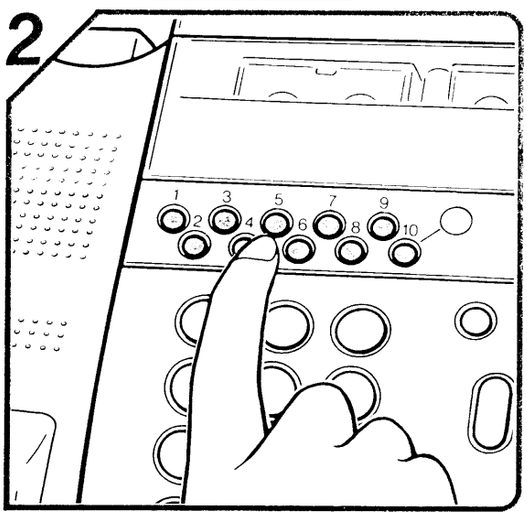



**Press the PROGRAM button again.**

## TO MAKE A PHONE CALL WITH AUTOMATIC DIALING




**Pick up the receiver.**




**Press the memory button corresponding to the phone number you wish to dial.**

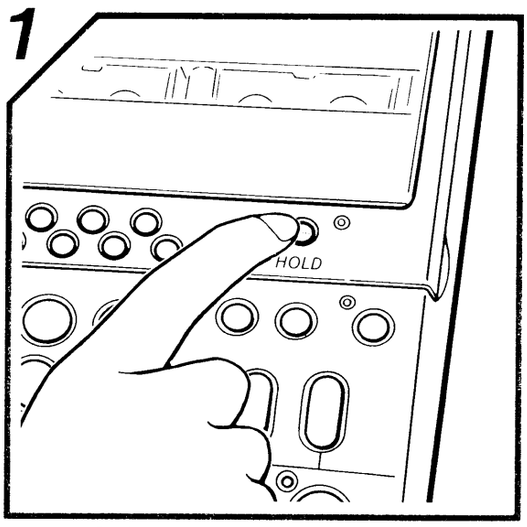
(You can also dial using "On-hook dialing." See instructions on p. 12.)

**To change a memorized number**
Follow the procedures above and memorize a new number for the memory button. The old number will be erased automatically.

**To erase a memorized number**
Press the PROGRAM button twice, then press the memory button you want to erase.

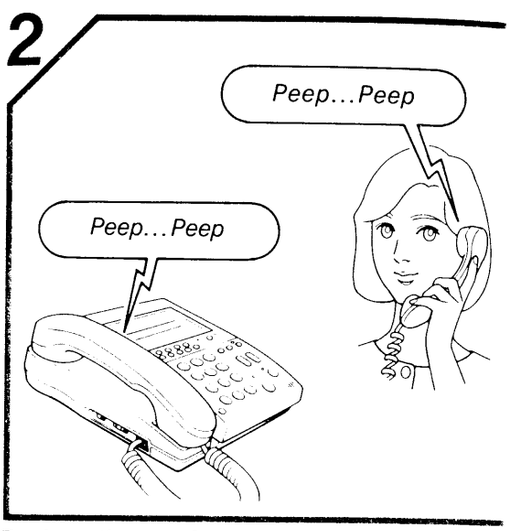
**To set memory for use with a PBX (pushbutton inter-office exchange)**
Example: suppose that "9" is used to open the line for outside calling.
Press the REDIAL/PAUSE button to insert a 4-second (approx.) interval between the pressing of "9" and the dialing of the number.
Then follow the usual memory procedures as shown above.
Each time you press the REDIAL/PAUSE button, a 4 second pause is recorded as if it were a numerical digit.

# TO PUT A CALL ON HOLD




**Press HOLD during the conversation.**

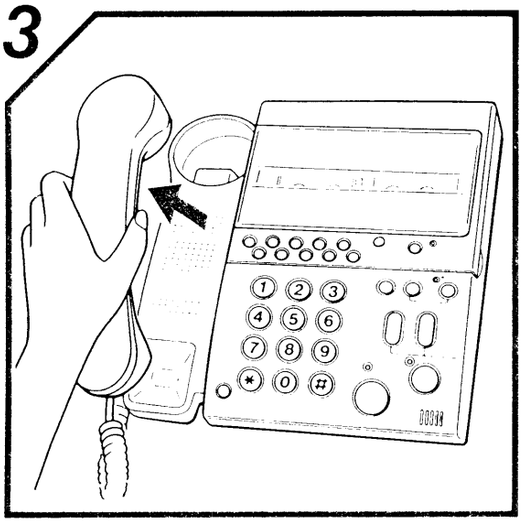
The party will hear "peep, peep," rather than your voice. "Peep, peep" will also be heard from the speaker of your telephone.




**Replace the receiver.**

The telephone will stay in the HOLD mode even if you do not replace the receiver.

3



**Pick up the receiver and resume your conversation.**

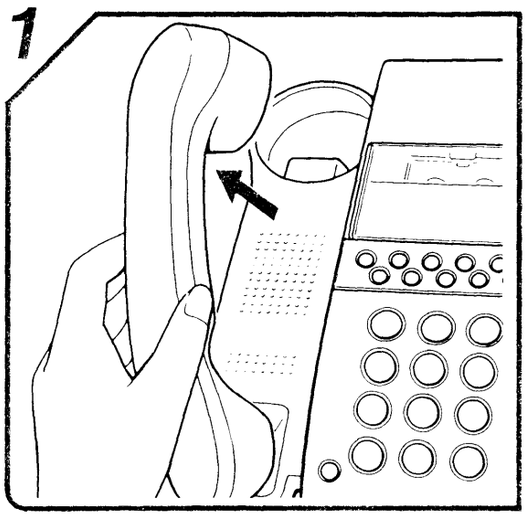
If you have not replace the receiver, you must press HOLD when you want to resume the conversation.

## TO PUT A CALL ON HOLD IN THE SPEAKERPHONE MODE (IT-A650)

Press HOLD to engage.
To resume the conversation, press HOLD again or press ON/OFF.

# TO USE "ALTERNATIVE LONG DISTANCE" (M

Some services, such as MCI, Sprint and other "alternative long distance" companies, require that you use tone dialing. With this telephone, **you can use these services even if you have a pulse-type phone setup.** This is done through a process called "mixed dialing."




**Pick up the receiver.**

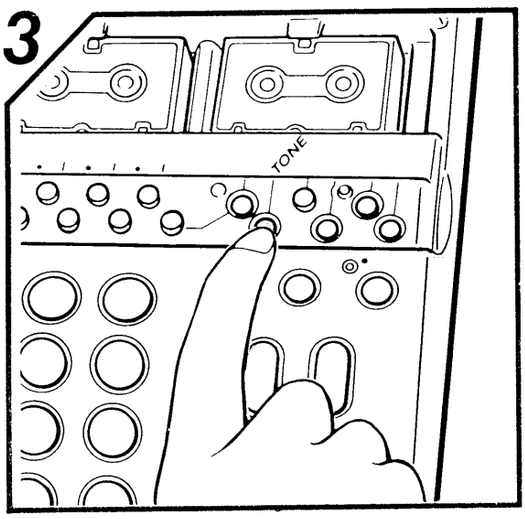
**Dial the number of the service you want to use. You can do this in the pulse mode.**

## WHY IS THE TONE BUTTON NECESSARY?

Computerized services (such as MCI) rely on the tones generated by tone-type phones to command their computers. If your telephone has a tone setup, this is no problem. But usually you cannot use these services if your setup is pulse.
But you can with the TONE button included on this phone. You can use pulse-dialing to reach the service you want; then you can switch to tone output after you have reached that service. This tone output allows you to communicate with the service's computer. The TONE button has been included for this reason.

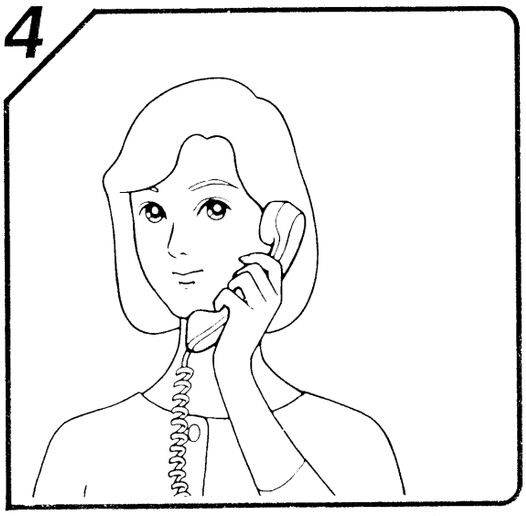
- You must press TONE each time you used "mixed dialing." The TONE mode is cancelled when you replace the receiver.
- When you have used a "tone-based service," "automatic redialing" is not possible.

3




After you are connected to the service, press TONE.

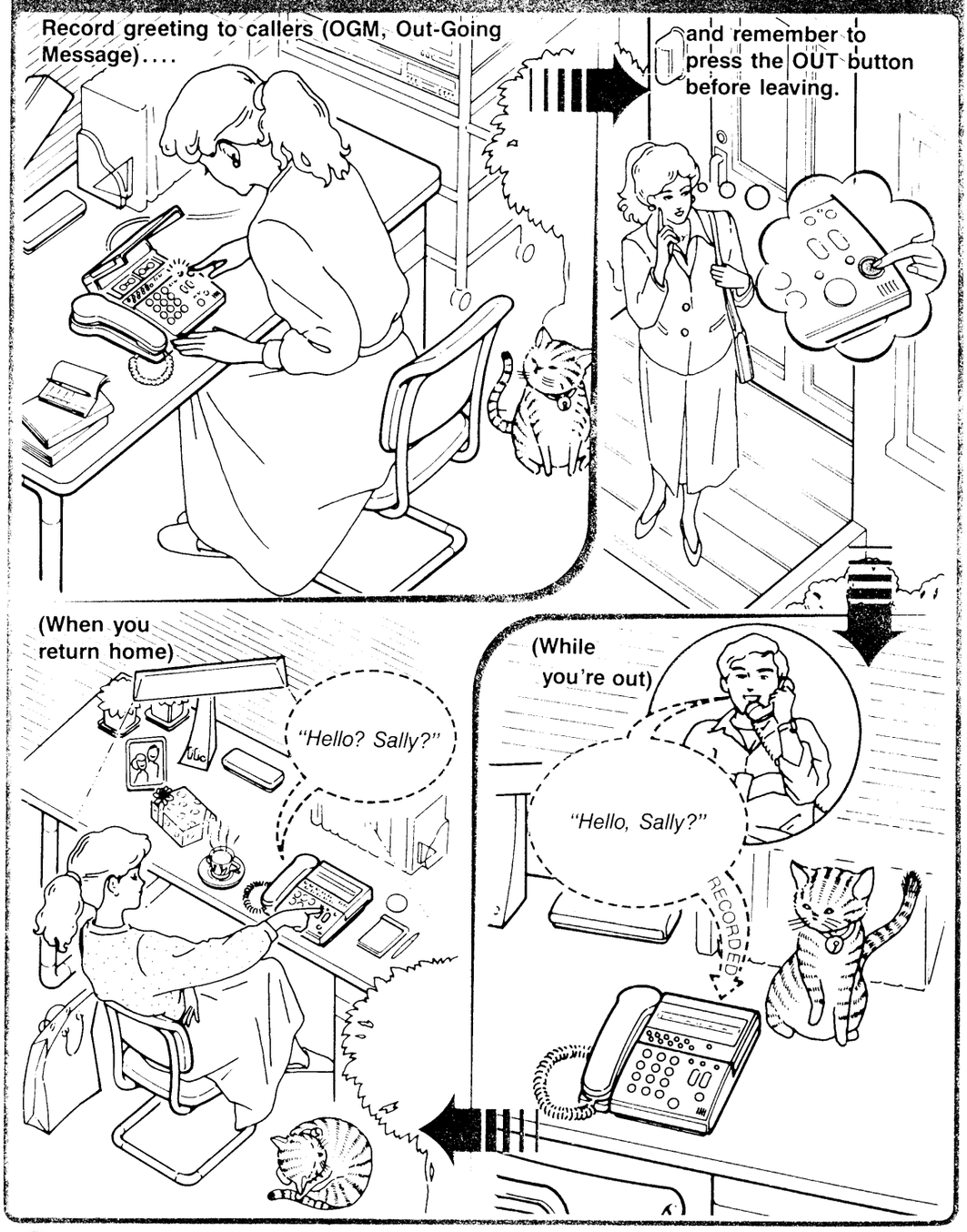
4



Dial the long-distance number when instructed by the long-distance company. This will be done in the tone mode.

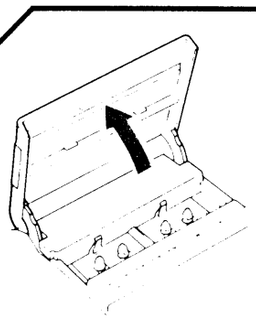
# WHAT CAN AN ANSWERING MACHINE DO?

**When you go out, or you're busy with a job that demands all of your attention, the unit will answer phone calls and record the caller's message.**


Record greeting to callers (OGM, Out-Going Message)....
and remember to press the OUT button before leaving.
(When you return home)
"Hello? Sally?"
(While you're out)
"Hello, Sally?"
RECORDED

# GETTING READY 1: INSERTING THE CASSETTES

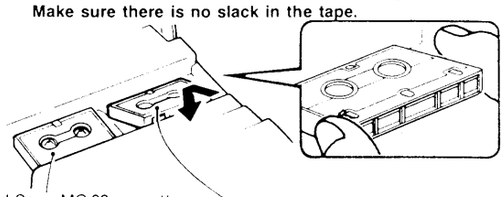
**1**



**Open the cover.**

**2**

Press firmly to insert the tape. The side you wish to record should be face up, and the exposed tape should be facing you.
**Make sure there is no slack in the tape.**



Supplied Sony MC-30 cassette (red) or an optional MC-30 or MC-60 cassette: For recording caller's messages

Supplied Sony MC-5 cassette (black) or an optional MC-30 casette: For recording your greeting to callers

**Remove cassettes by hard. (There is no "eject" button.)**

## GREETING TYPE A VS. GREETING TYPE B

**Record both of Greeting Type A and Greeting Type B on the Out-Going Message Cassette. Otherwise, you cannot use telephone answering function.**

**Greeting Type A**
(This is a greeting which asks the caller to record a message.)

Examples
**1 (Home)**
Hello, this is Sally. I am unable to answer your call at this time. Please leave a message. Speak slowly and clearly after the tone. Thank you.

**2 (Business)**
Thank you for calling Mona Lisa Painters—where you get "Service with a Smile." We are sorry, but our business hours have ended for the day. Please leave your name, telephone number and reason for calling, and one of our sales representatives will contact you as soon as possible. Speak slowly and clearly after the tone. You can record for OO* seconds. Have a nice day!

*For instructions on recording length, see p. 27.

**Greeting Type B**
(This greeting is for use when the recording capacity of the In-Coming Message Cassette has been filled.
It can also be used for the Message TRANSFER function. See p. 47)

Examples
**1 (Home)**
Hello, this is _____ . I am unable to to answer your call now. If you have urgent business, I can be reached at XXX-XXXX.

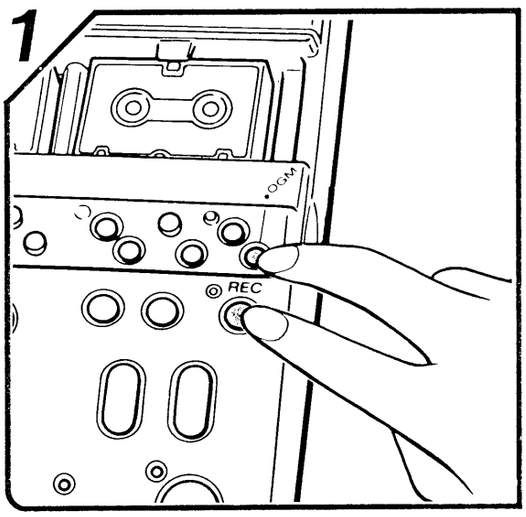
**2 (Home)**
Hello, this is _____ . I am unable to answer your call now. Please call again.

**3 (Business)**
Thank you for calling Mona Lisa Painters—where you get "Service with a Smile." We are sorry, but our business hours have ended for the day. Please call us again tomorrow. We open for business at 8:30 AM.

# ANS GETTING READY 2: RECORDING YOUR GREET

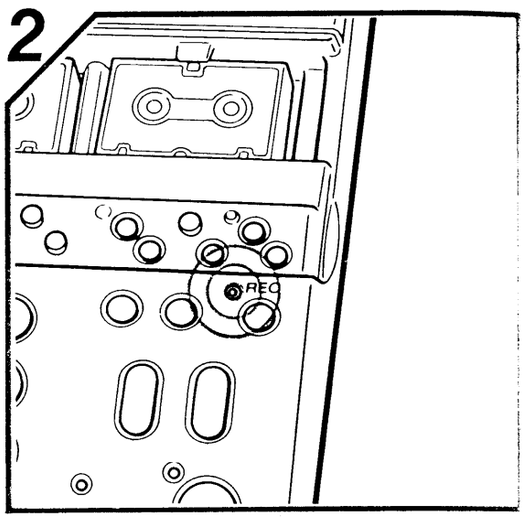
**Record your Type A Greeting first, then your Type B Greeting. (See the previous page for examples.)**

**1**



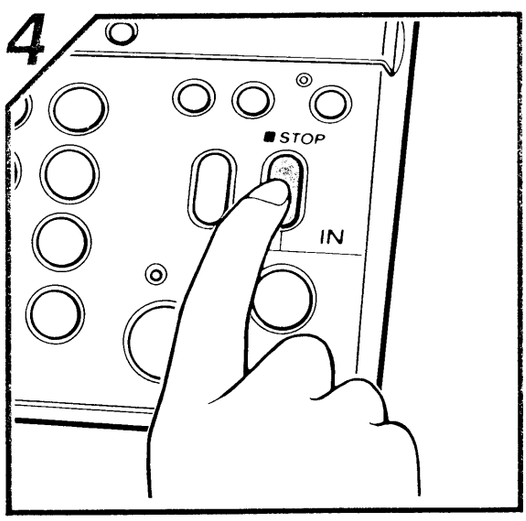

**Simultaneously press OGM and REC.**
Make sure the receiver is on the hook. If the OUT lamp is lit, press ■ STOP/IN. The lamp will go out.

**2**



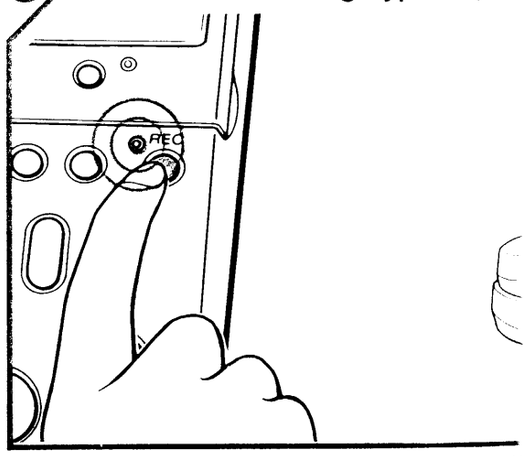

**The REC lamp should begin to flash on and off.**

**4**




**Press ■ STOP/IN when you have finished recording.**
(Press firmly. Make sure the tape stops.)

**5** **To record Greeting Type B** (mus

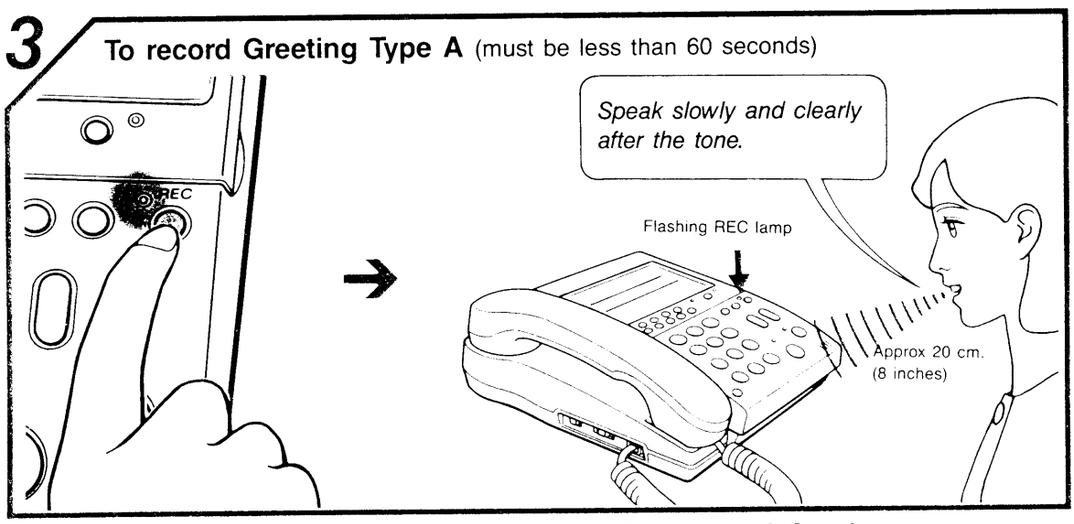



**The REC lamp will begin flashing on and off**
**Press REC.**
(**Always** record a Type B Greeting. Otherwise the answering machine function will not work.)

**If your Greeting exceeds 60 seconds** a warning tone will sound and the tape will stop. Shorten your Greeting, and begin again from step 1.

**To record only a Type B Greeting**
1 First perform steps 1 and 2 above.
2 When the REC lamp begins flashing, first press •REC, then immediately press ■ STOP/IN.
3 Follow steps 5 and 6 above.

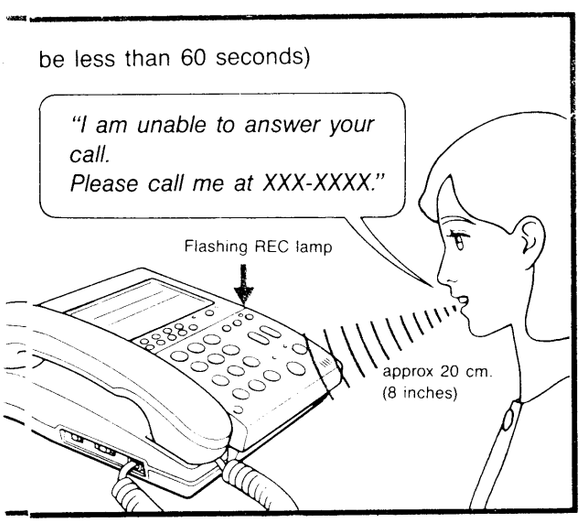
## 3 To record Greeting Type A (must be less than 60 seconds)




**Press REC.**

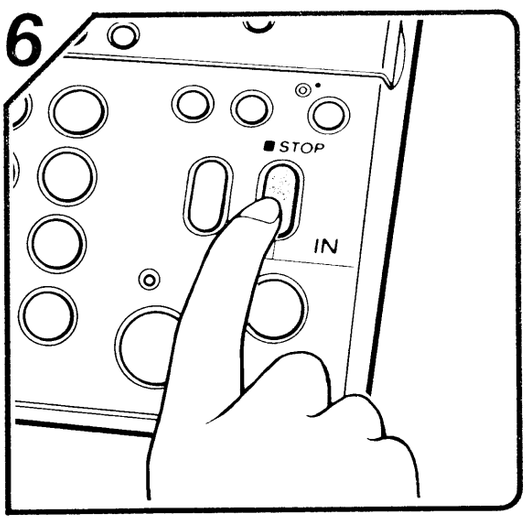
**Record your Type A Greeting.**

be less than 60 seconds)




**Record your Type B Greeting.**

## 6

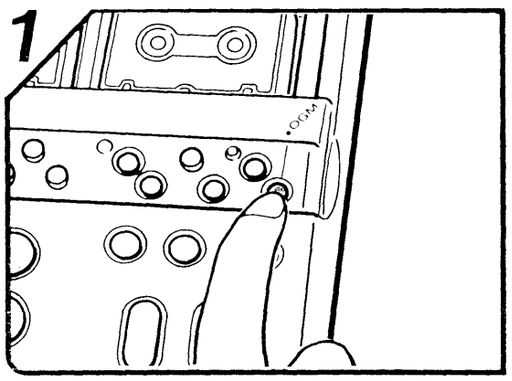



**Press ■ STOP/IN when you have finished recording.**
(Press the button firmly. Make sure the REC lamp goes off.)

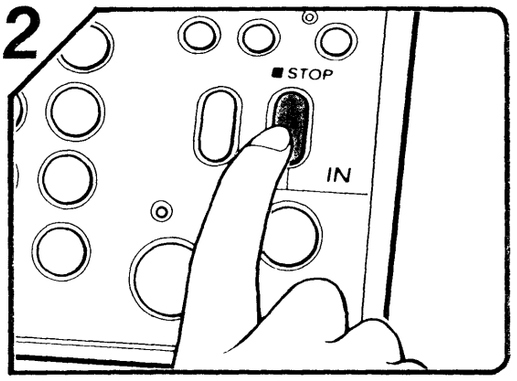
**For best recording results**
Record in a quiet room and speak in a clear voice. If you add background music, make sure that you speak louder than the music.

**To change or correct your recording**
Re-record the entire tape, following steps 1-6 above.

## TO RECONFIRM YOUR RECORDED GREETING




**Press OGM.**
Your Type A and Type B Greetings will be played back.

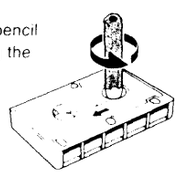



**When you have finished listening, press STOP/IN.**

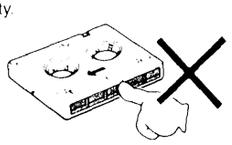
## IMPORTANT NOTES ABOUT CASSETTE CARE

### To prevent tape tangles

Take up slack in the tape, using a pencil inserted in the hub, before inserting the cassette.

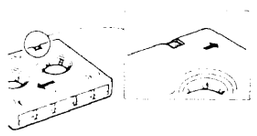


**DO NOT touch the tape surface with your fingers**
This may make the heads dirty.



**Make sure you insert the cassette completely**
Incompletely inserted cassettes will not run properly, and may cause tangles.

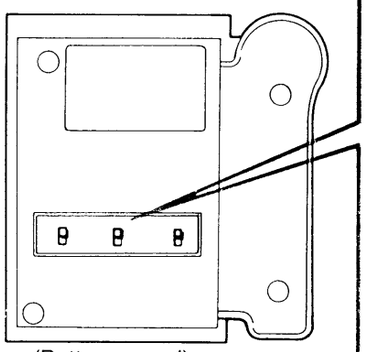
**To find side A even in the dark**
The A side of all Sony Microcassettes has an indentation like the one in the illustration.



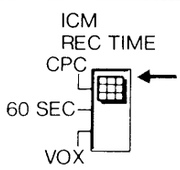
**Replacing cassettes**
If you use the same cassette for a long period of time, it will gradually wear out. The recording quality will worsen, and misfunctioning of the unit may occur. It is best to replace cassettes regularly and promptly.
We recommend Sony MC-30 or MC-60 Microcassettes.
**MC-90 cassettes should be avoided.** They use very thin tape which tangles easily.

# ANS GETTING READY 3: SETTING THE RECORDING TIME FOR CALLERS' MESSAGES (IN-COMING MESSAGES)

Select the recording time limit for callers' (in-coming) messages with the ICM REC TIME select switch.



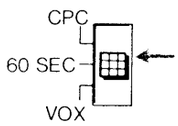
(Bottom panel)




**CPC:** The unit will continue recording until the caller hangs up or stops talking (max. 4 min.)

CPC means Calling Party Control signal. Some phone systems generate this signal when the caller hangs up. The signal indicates to the unit that the caller has completed the call.

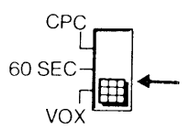
At the CPC position, the unit stops recording when the CPC signal is received. If the CPC signal is not generated, the unit will stop recording several seconds after the caller stops talking.
When 4 minutes have passed, the unit stops recording even if the caller has not completed his message yet.




**60 SEC:** The unit will continue recording for max. 60 seconds.

If the caller stops talking within 60 seconds, the unit may stop recording before 60 seconds have passed.

If the caller does not stop talking within 60 seconds, the unit stops recording when 60 seconds have passed.




**VOX:** The unit will continue recording until the party stops talking (max. 4 min.)

VOX is Latin for Voice.
The unit will stop recording serveral seconds after the caller stops talking.
When 4 minutes have passed, the unit stops recording even if the caller has not completed his message yet.

**RECOMMENDED SETTING**

- For most situations, we recommend the CPC setting.
- If your phone is equipped with a "call waiting" (hold) function then the VOX or 60 SEC setting is recommended. (In the CPC mode, your caller may be cut off midway through recording his message if another call comes in.)

For all settings above, a tone may be recorded at the end of your callers' messages.

If voices are faint, if the caller keeps silence longer than 4 seconds, or if the connection is poor, the unit may stop recording before the caller completes his message.

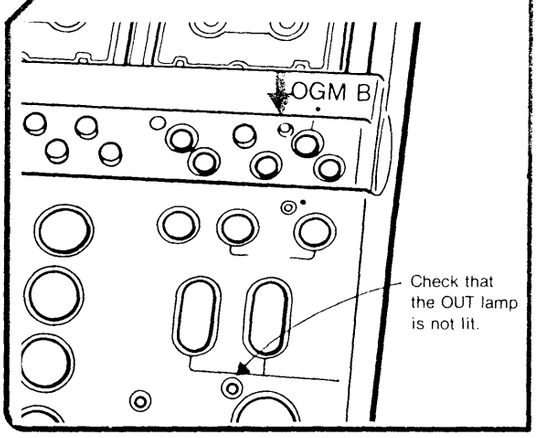
# ANS WHEN YOU GO OUT (USING AS AN ANSWERING MACHINE

**Cassette for recording In-Coming Messages**
You can only record on one side of the cassette. (So with an MC-60 cassette, 30 minutes recording time is available.)

**Cassette which plays back your Type A or Type B Greeting**

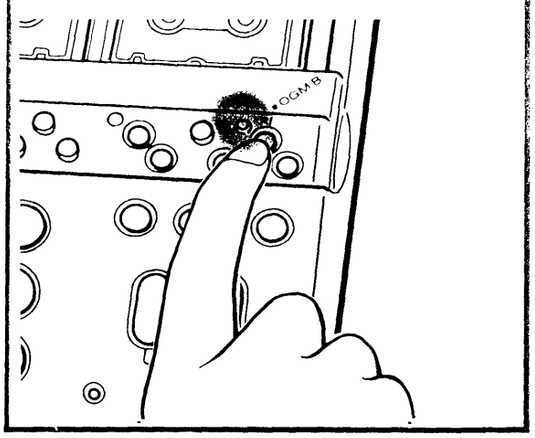
**When you go out, select either Greeting Type A or Type B**
However, when the recording space on the In-Coming Message cassette has been completely used, the unit will automatically use your Type B Greeting, no matter what you select.

**1** **To use Greeting Type A.**




**If the OGM (Out-Going Message) B lamp is lit, press the OGM B button. When the lamp goes out, Greeting Type A is selected.**

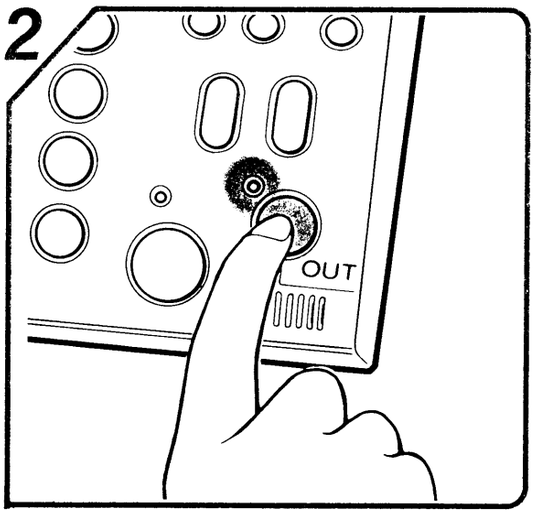
**To use Greeting Type B.**




**Press the OGM B button until the OGM B lamp lights up.**

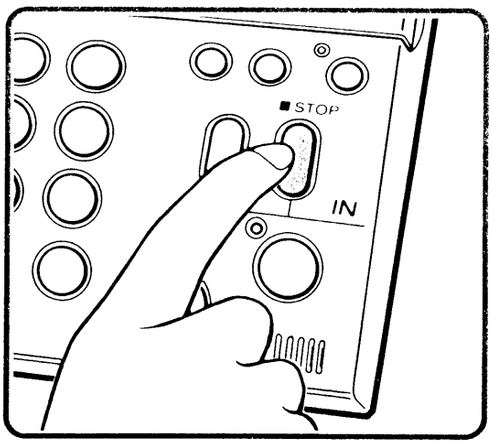
**Wrong-cassette alarm**
If you press the OUT button after inserting an unrecorded cassette, or any cassette other than the one with your Greetings recorded, an alarm will sound and the OUT button will flash rapidly. Press ■ STOP/IN. The OUT lamp will go off. Then insert a cassette with Greetings recorded. (see p. 24)

2



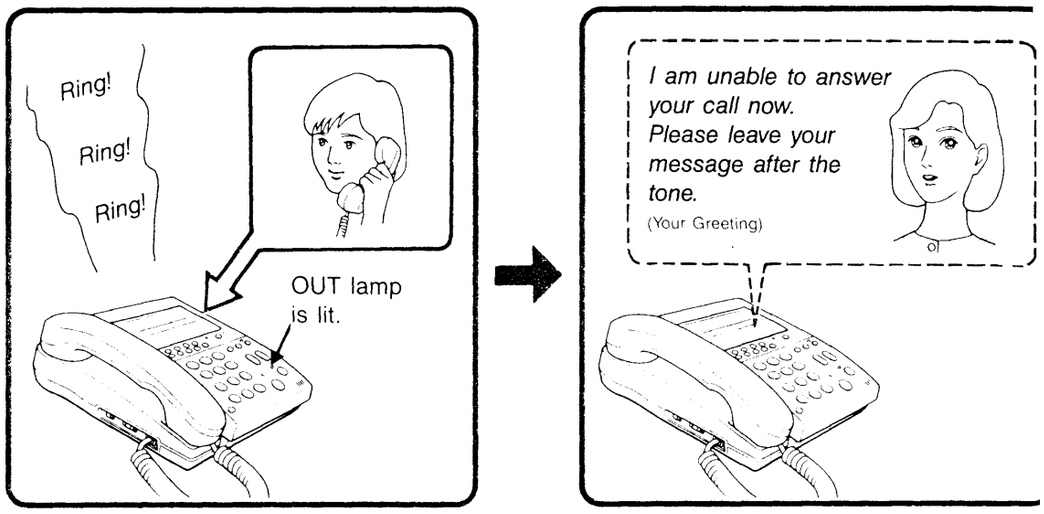

**Press OUT.**
The OUT mode will be selected, and the OUT lamp will light up.

**TO SELECT THE "IN" MODE**




**Press ■ STOP/IN.**
When the lamp goes out, the IN mode is selected.

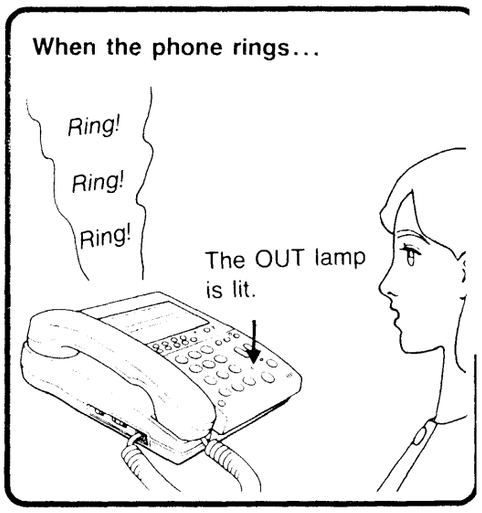
## IF A CALL COMES WHEN YOU ARE OUT

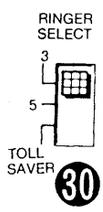



This Greeting cannot be heard through the speaker.

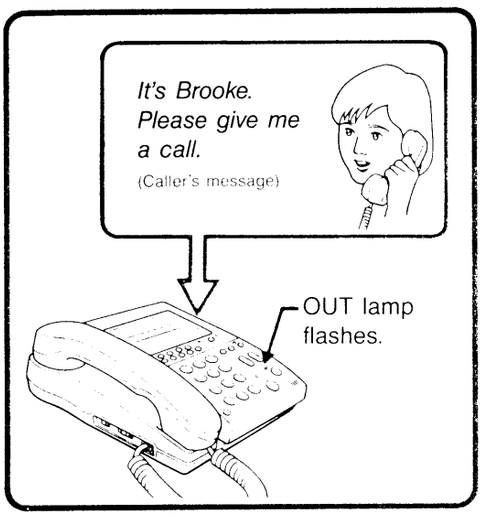
## TO BE "OUT" WHEN YOU'RE HOME (SCREENING CALLS)

You can use the OUT mode (see instructions on next page) even when you're at home, to screen calls. You will be able to hear the caller's message as it is recorded. Then you can decide whether or not to answer. This protects against unwanted calls.
If you want to answer, pick up the receiver. The tape will stop and you can talk to the caller.

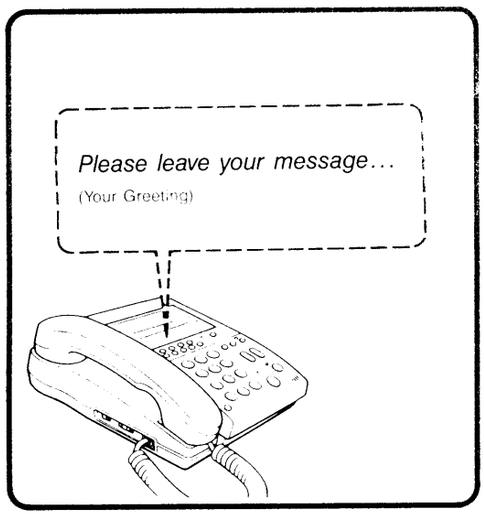


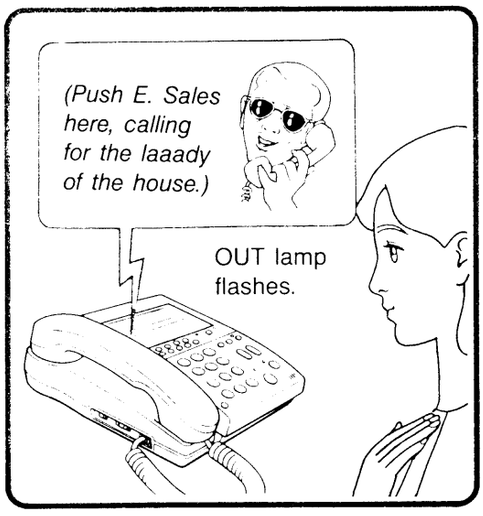

**To select how many times the phone rings before the OGM tape starts playback**
Set the RINGER SELECT switch at the bottom of the unit to "3" or "5" according to your preference.
With the switch at "3", the phone rings 3 times and at "5", it rings 5 times before the OGM tape starts playback.




**When a message is recorded, the OUT lamp will flash.**




This Greeting cannot be heard through the speaker.



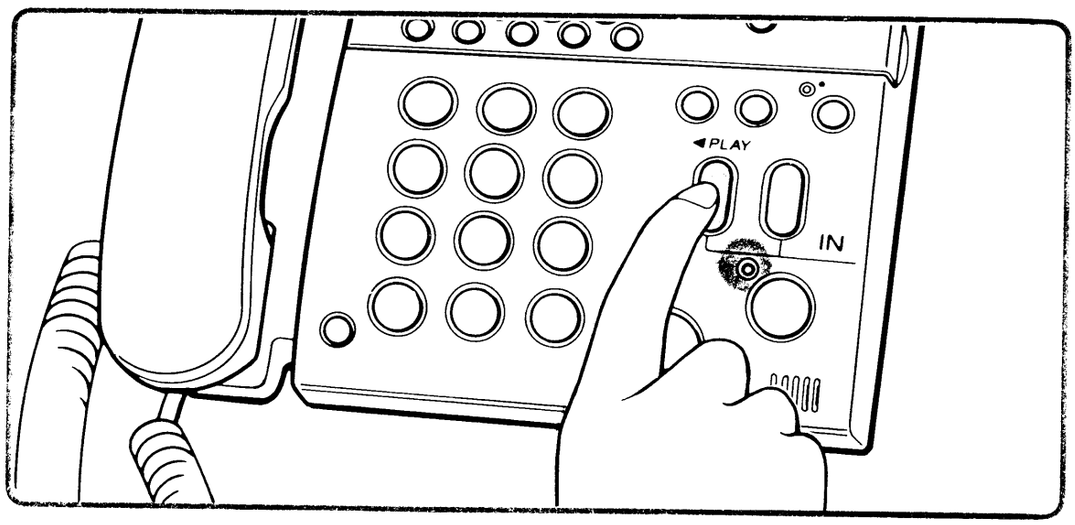

The caller's voice can be heard through the speaker. You can adjust the loudness with the VOLUME control. The caller cannot hear your voice.

**Volume of your Greeting**
The volume of your Greeting is not affected by the VOLUME control.

**If the caller's message is shorter than 4 seconds**
It is recorded on the tape but not registered as a "in-comming message." Therefore, the OUT lamp will not flash if only that message is recorded on the tape.

# ANS TO LISTEN TO RECORDED MESSAGES FROM

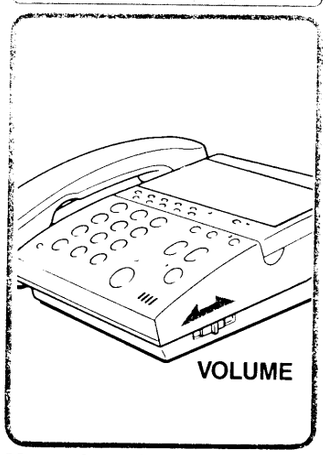
Follow these instructions to listen to messages recorded while you were out.




If any messages have been recorded, the OUT lamp will be flashing when you return. If the lamp is simply lit, no messages have been recorded.

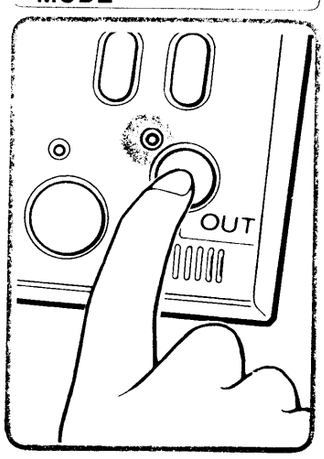
**Press ◀ PLAY.**
The OUT mode will be canceled, and messages played back.

## TO ADJUST VOLUME



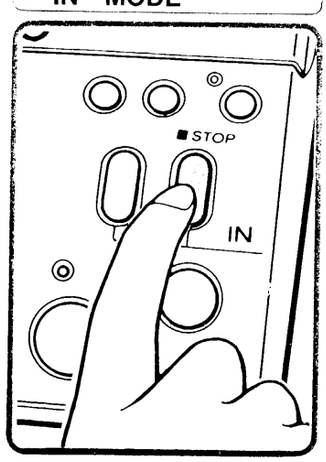

**Move the VOLUME control.**

## TO RETURN TO OUT MODE




**Press OUT.**
The In-Coming Message tape will automatically rewind to the beginning.

## TO SWITCH TO THE "IN" MODE

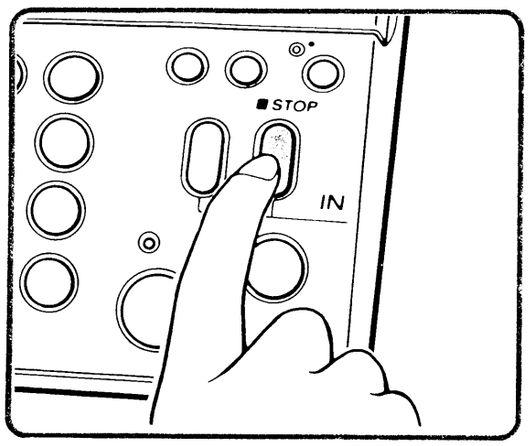



**Press ■ STOP/IN.**

**When you return to the OUT mode**
Previously recorded messages will be erased. If you want to save messages, flip the tape over, or use a new tape.

# CALLERS

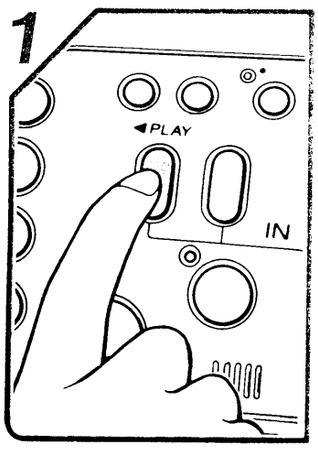
## TO STOP THE TAPE



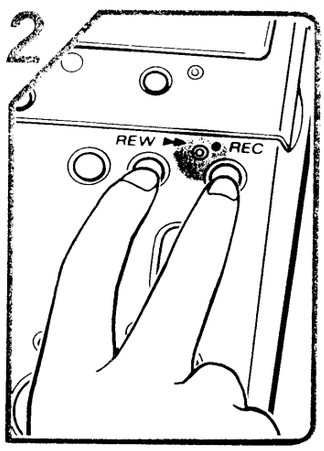

Press ■ STOP/IN

| | |
|---|---|
| **To return the tape to the beginning.** | Press ■ STOP/IN. Then press REW. |
| **To skip forward and listen.** | Press FF during play.<br>Tape will skip forward as you hold. Play will resume when you release your finger. |
| **To listen to the same part twice.** | Press REW during play. Tape will reverse until you release your finger, then play. |
| **To skip forward to the end of the tape.** | Press ■ STOP/IN. Then press FF. |

## TO KEEP MESSAGES YOU HAVE HEARD CONFIDENTIAL (ERASING MESSAGES)

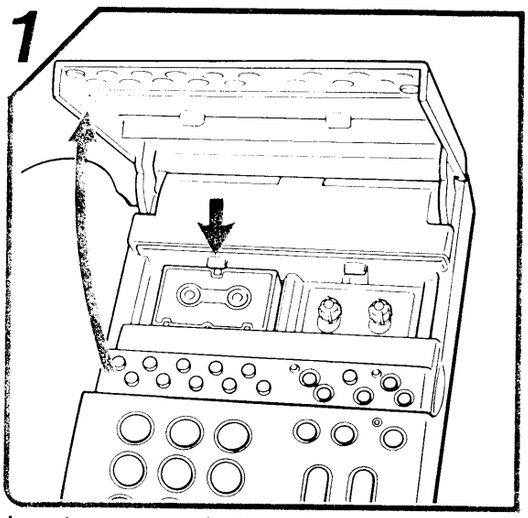



**After listening to messages...**

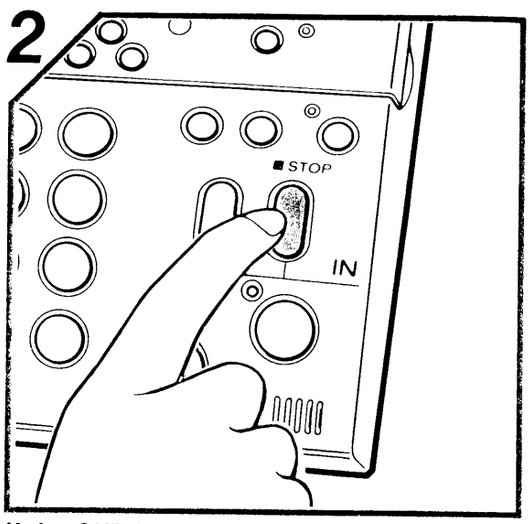



**Simultaneously hold down REC and REW.**
The REC lamp will light up.
The tape will be erased as it rewinds.

# TO RECORD A CALL IN PROGRESS

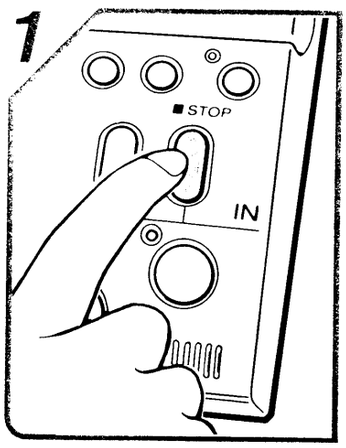



**Insert a cassette in the left compartment.**
If necessary, rewind to the beginning of tape, using REW.

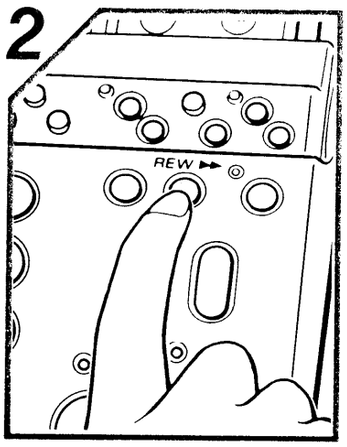



**If the OUT lamp is lit, press ■ STOP/IN. When the lamp goes out, the IN mode is selected.**

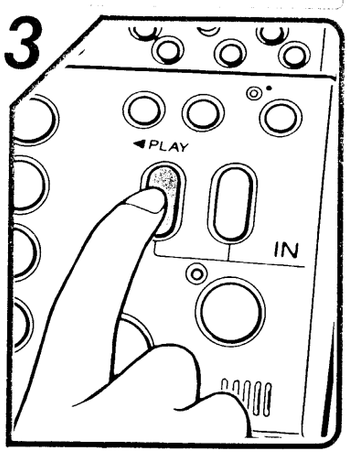
## TO PLAY BACK A RECORDING DURING A CALL




**If the OUT lamp is lit, press ■ STOP/IN. The lamp will go out.**




**Press REW.**
Tape will rewind.

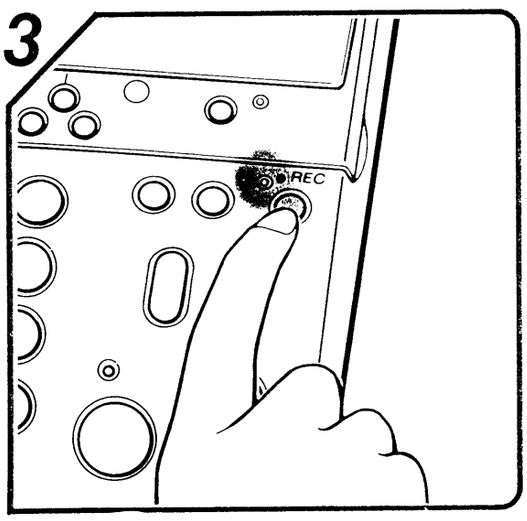



**Press ◄ PLAY.**
Both you and the person you are speaking to will hear the playback.

**Avoid erasing messages!**
When you record a call, you may erase important messages recorded previously. To avoid this, flip the tape over, or use another tape.

**To record in the OUT mode**
You can also record without switching off the OUT mode. The OUT lamp will flash. When you have finished recording, press ■ STOP/IN. The flashing will stop.

**3**

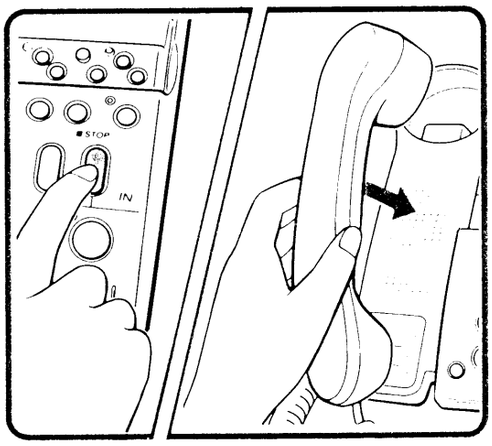



**Press REC during your conversation.**

Recording will begin.

You will hear a beep tone every 15 seconds.

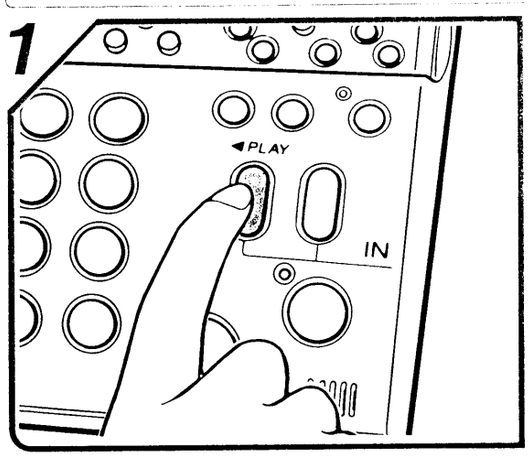
## TO STOP RECORDING




**Press ■ STOP/IN. Or hang up the receiver.**

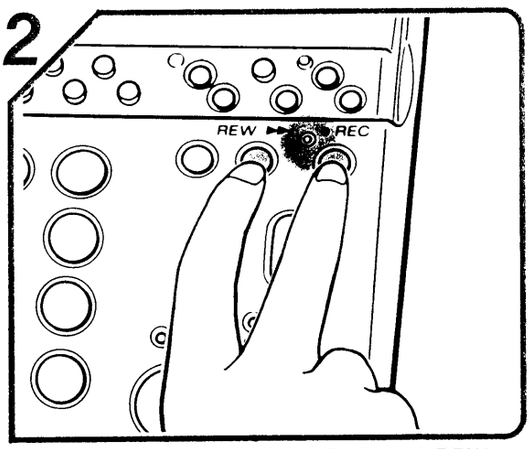
## TO ERASE A RECORDING

**1**




**After listening...**

**2**



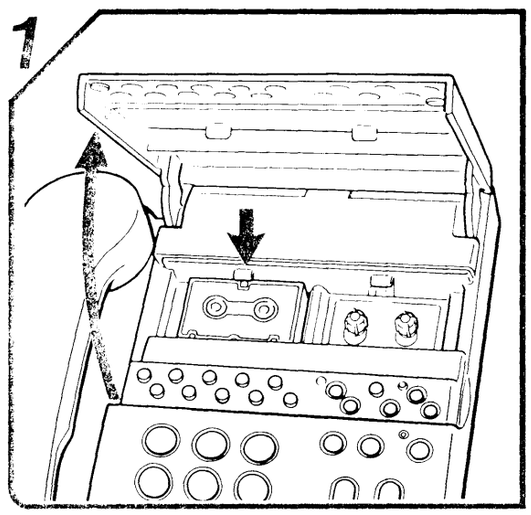

**Simultaneously hold down REC and REW.**

The REC lamp will light up. The tape will be erased as it rewinds.

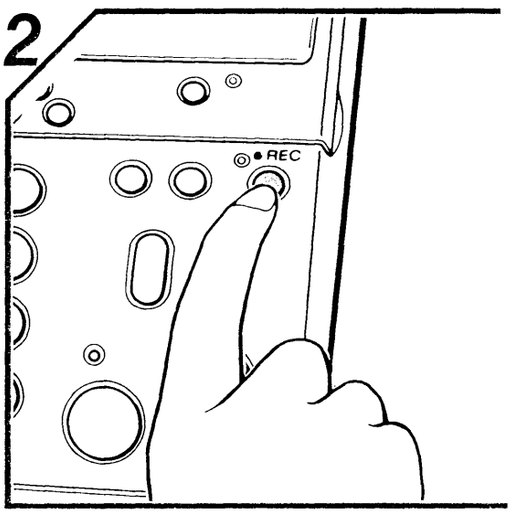
# TO SEND A RECORDED MESSAGE BY PHONE

You can have the telephone transmit a pre-recorded message, or a message you have recorded while you are out.

## TO RECORD A MESSAGE

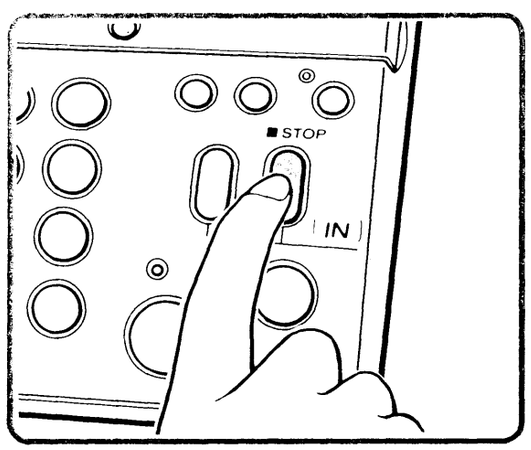



**Put a cassette in the left compartment.**



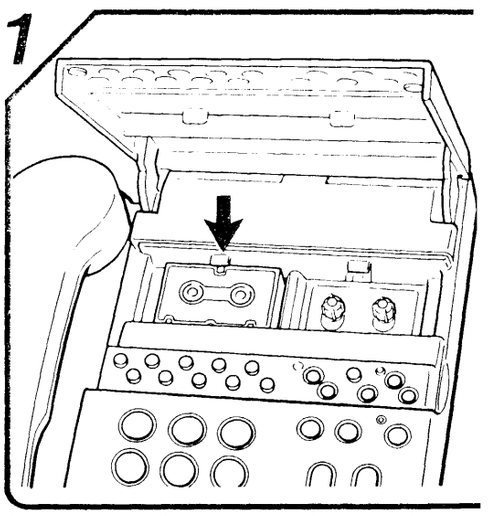

**Press REC.**
The REC lamp will light up.

## TO STOP RECORDING

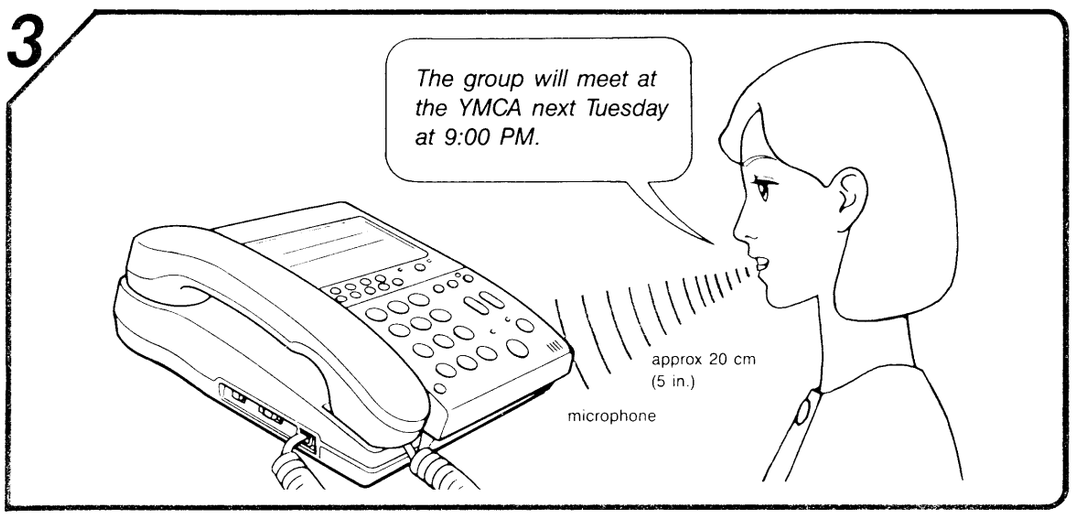



**Press ■ STOP/IN.**
The REC lamp will go off.

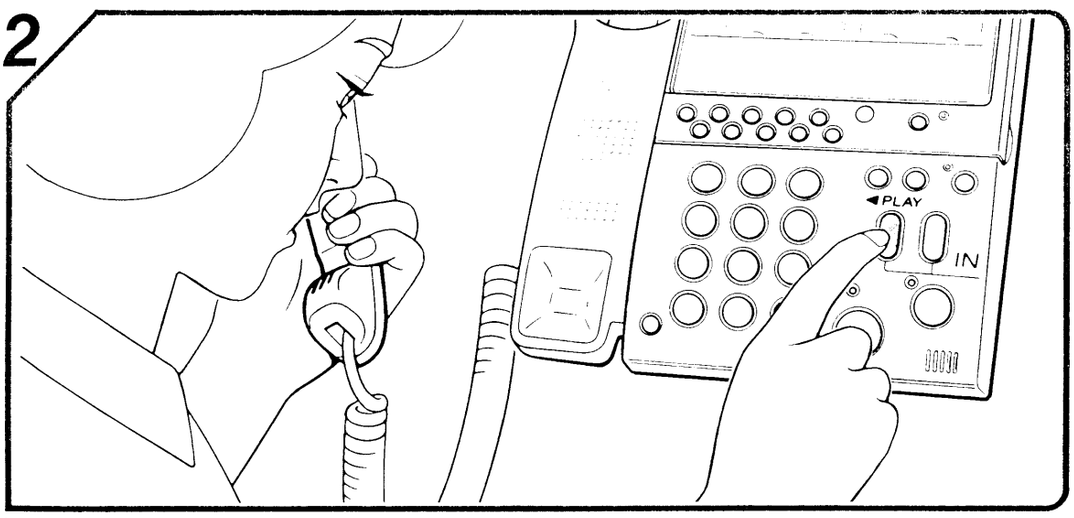
## TO SEND THE MESSAGE




**Put the recorded cassette in the left compartment. Advance or rewind to the beginning of the message.**




**Record your message.**




**Press ◄ PLAY during the call.**
The other person will hear your recorded message.

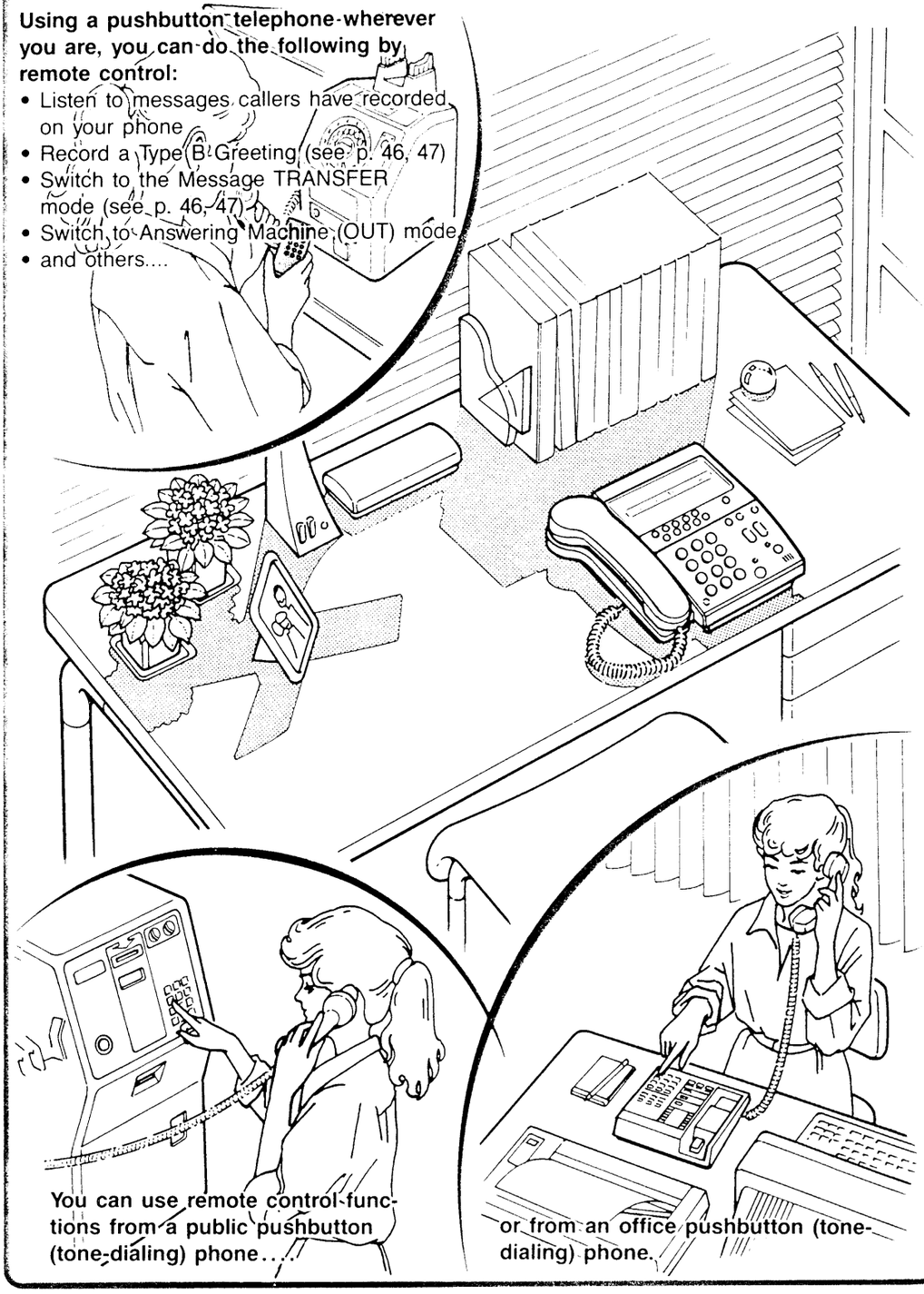
(This function can be used in the speaker-phone mode with the IT-A650.)

- Playback cannot be heard through the speaker. Listen through the receiver.
- If you press FF or REW during playback, a squealing noise will come through the speaker. This will not be heard over the phone.
- You can send a message recorded on any Microcassette with tape speed of 2.4 cm/s.

# WHAT CAN YOU DO BY REMOTE CONTROL?

**Using a pushbutton telephone wherever you are, you can do the following by remote control:**

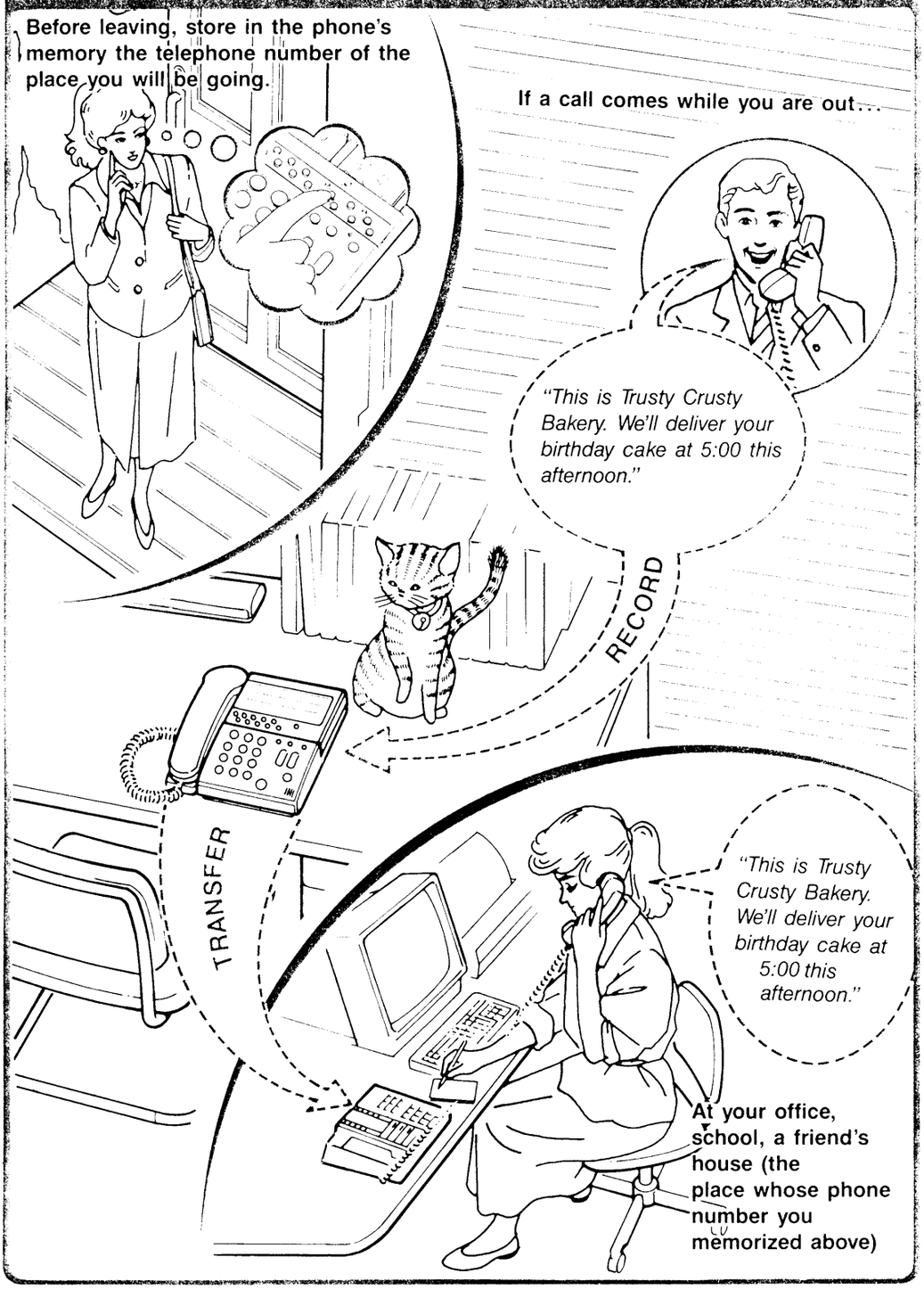
- Listen to messages callers have recorded on your phone
- Record a Type B Greeting (see p. 46, 47)
- Switch to the Message TRANSFER mode (see p. 46, 47)
- Switch to Answering Machine (OUT) mode
- and others....



You can use remote control functions from a public pushbutton (tone-dialing) phone...

or from an office pushbutton (tone-dialing) phone.

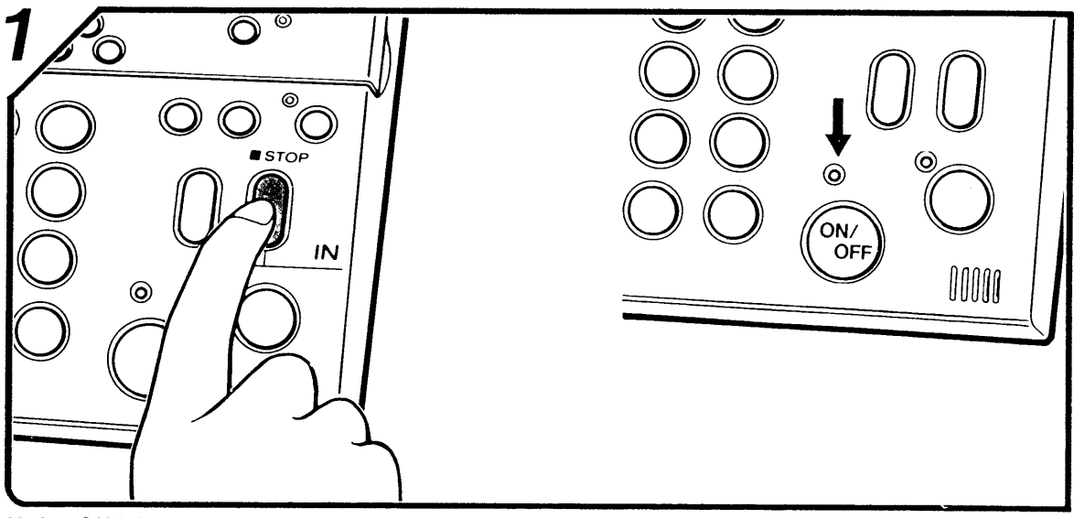
# HOW DOES THE MESSAGE TRANSFER SYSTEM WORK?


Before leaving, store in the phone's memory the telephone number of the place you will be going.
If a call comes while you are out...
"This is Trusty Crusty Bakery. We'll deliver your birthday cake at 5:00 this afternoon."
RECORD
TRANSFER
"This is Trusty Crusty Bakery. We'll deliver your birthday cake at 5:00 this afternoon."
At your office, school, a friend's house (the place whose phone number you memorized above)

# REM GETTING READY 1: MEMORIZING THE CODE

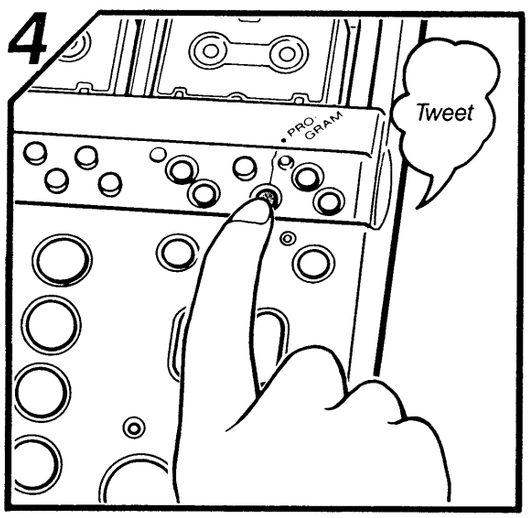
To make sure that strangers and wrong-number dialers cannot operate or accidentally activate your remote control system, you should enter a code number that only you (or your family/ housemates) know.

**Remote control functions cannot be operated without first memorizing a code number.**

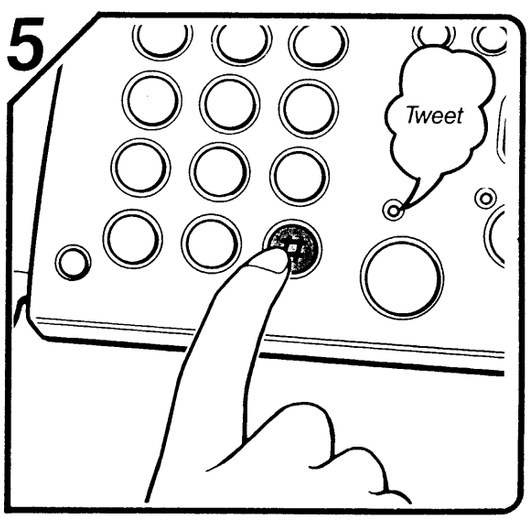



**If the OUT lamp is lit, press ■ STOP/IN. The lamp will go off.**

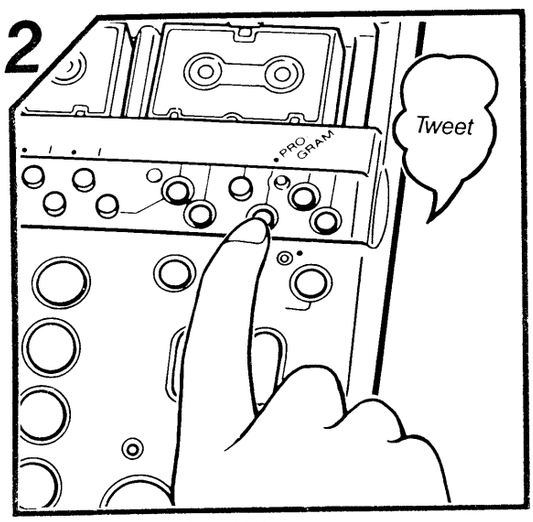
**If the LINE lamp is lit, press the ON/OFF button. The lamp will go off.**



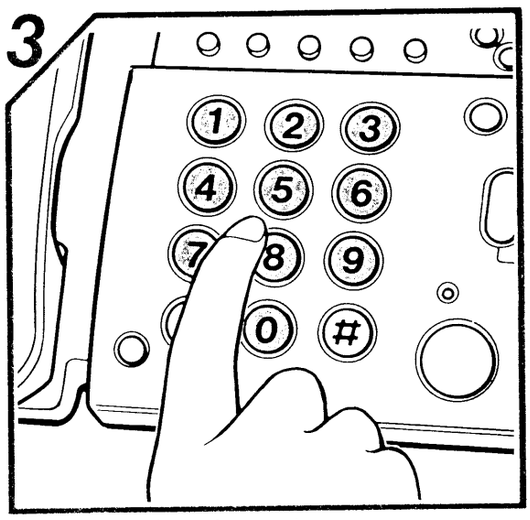

**Press the PROGRAM button.**




**Press the # button.**
The code number is now memorized.




**Press the PROGRAM button.**




**Enter a 3-digit code number.**
(Choose any 3 digits you like. Remember this number.)

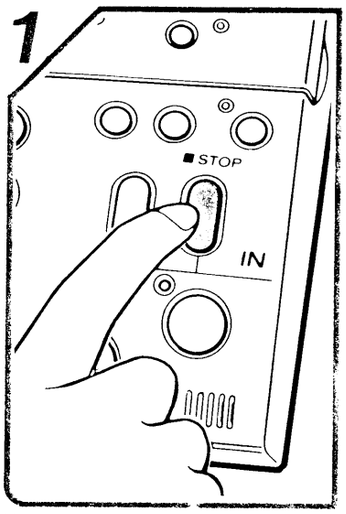
**To change your code number**
Memorize the new code number, following steps 1-5. The old code number will automatically be erased.



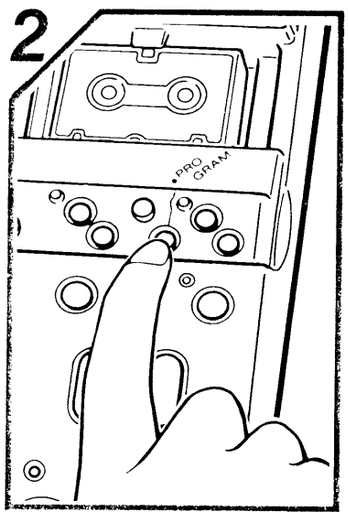
**If an alarm sounds**
Re-memorize the code number, following steps 1-5.

# GETTING READY 2: THE MESSAGE TRANSFE

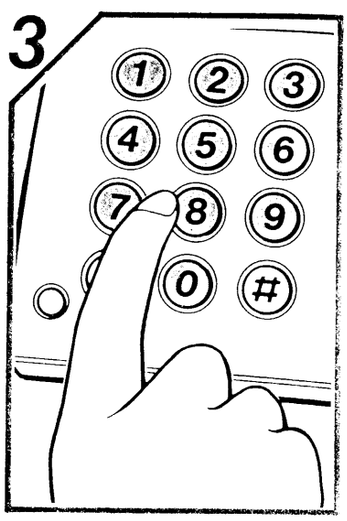
The steps on these pages will prepare your telephone to record callers' messages when you are out, and relay them to your office, friend's house or other remote location.



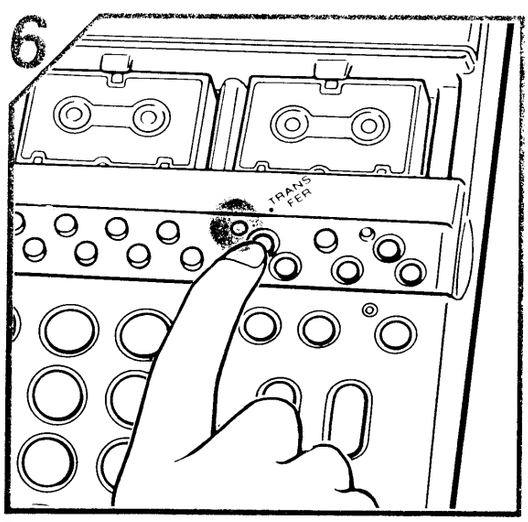

**If the OUT lamp is lit, press ■ STOP/IN . The lamp will go out.**



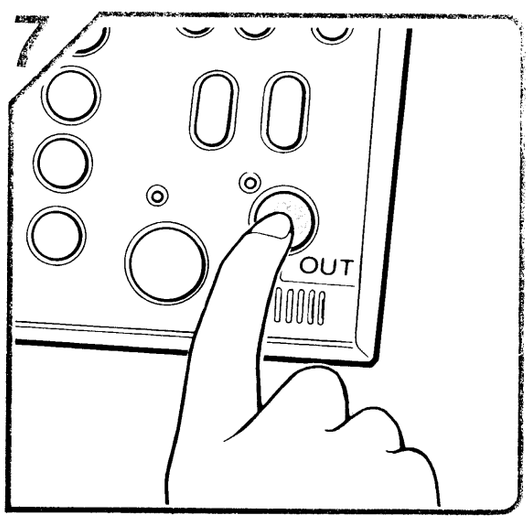

**Press the PROGRAM button.**




**Enter the remote telephone number—the telephone number of the location (your office, friend's house etc.) to which you want to relay messages.** (Up to 16 digits can be memorized.)

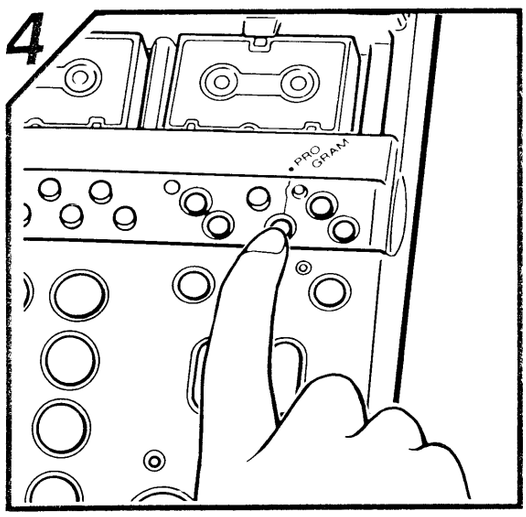



**Press the TRANSFER button.**
The telephone will be switched into the message TRANSFER mode. The TRANSFER lamp will light up.

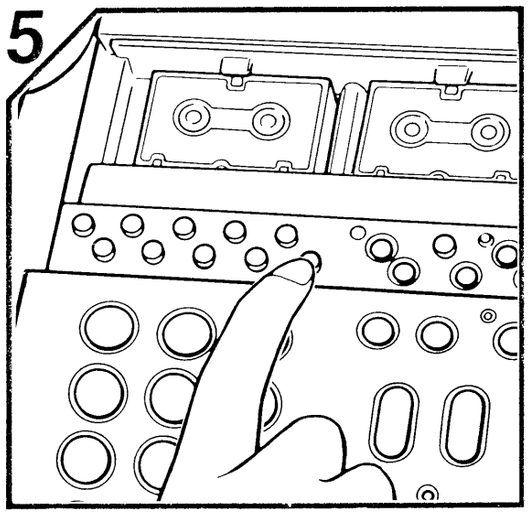



**Press the OUT button. This completes preparation for TRANSFER.**

**TO CHANGE THE TELEPHONE NUMBER FOR THE MESSAGE TRANSFER MODE, REPEAT STEPS 1-7 ABOVE**

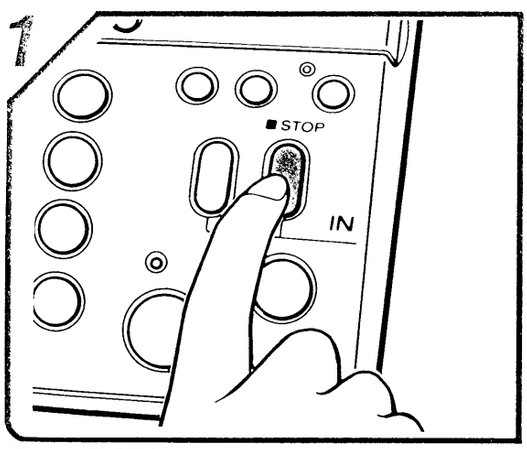



**Press the PROGRAM button.**
The remote telephone number will be memorized.

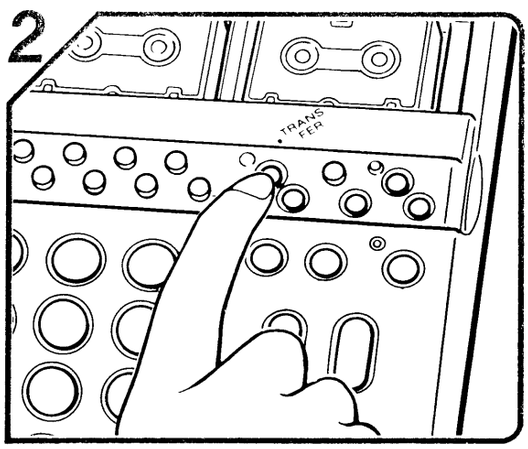



**Press the TRANSFER memory key.**

## TO SWITCH OFF THE MESSAGE TRANSFER MODE




**Press ■ STOP/IN .**

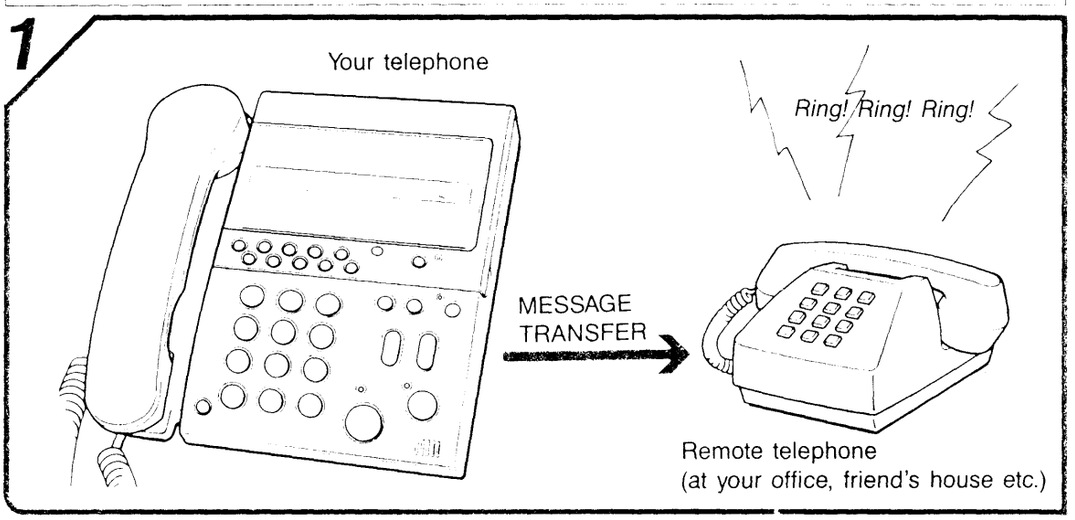



**Press the TRANSFER button.**
The TRANSFER lamp will go out and the message TRANSFER mode will be switched off.

# TO LISTEN TO A RECORDED MESSAGE AT AN PHONE USING THE MESSAGE TRANSFER MOD

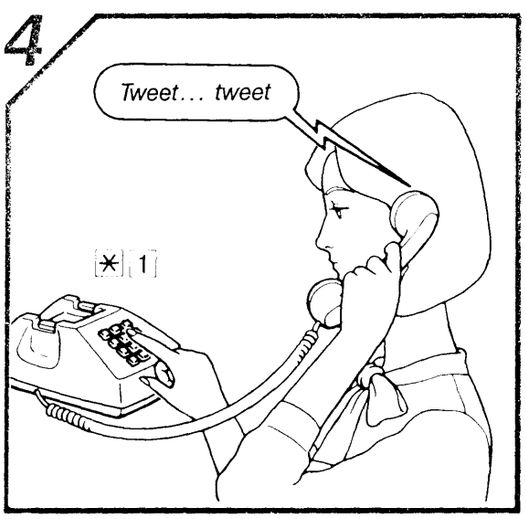
## BASIC OPERATION

**1**




**If a call is received while you are out, the message will be recorded, and relayed to the remote telephone, which will ring.**

**4**



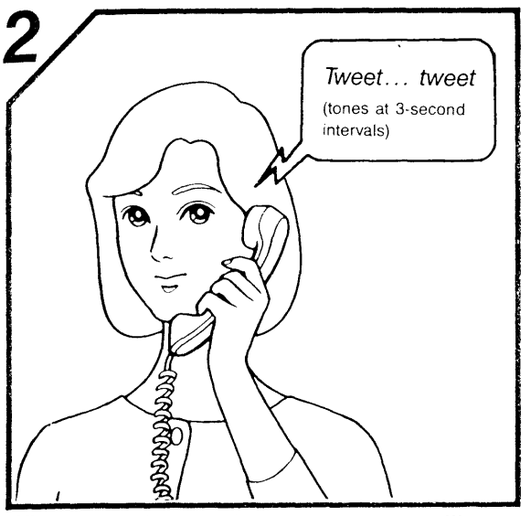

**When you hear a tweeting tone again, press ✱ 1 .**

**5**

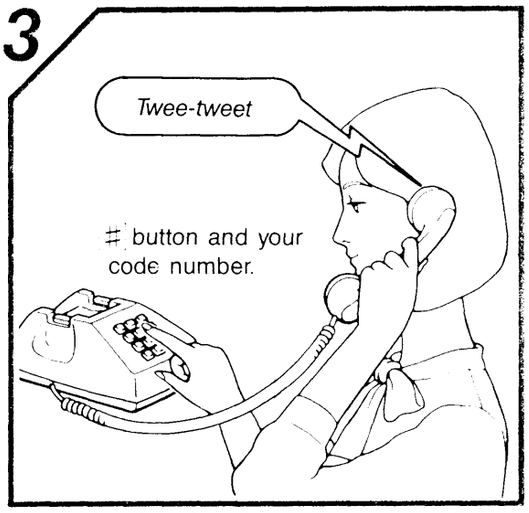
**The recorded message will be played back.**

**Automatic redialing for message TRANSFER**

- If ✱ 1 is not entered within 1 minute after the tweeting tone starts, the unit will hang up and redial 60 minutes later. If another call is received during that interval, both messages will be sent together.
- If the remote phone is not answered for 1 minute, the unit will hang up and redial 60 minutes later.




**When you pick up the receiver, you will hear a tweeting tone** (for about 1 minute).




**Before the tweeting tone stops, press the # button and enter your code number.**
You will hear a sharp twee-tweet that indicates your number has been received. Press each button within 2 seconds of the previous one.

## FOR BEST RESULTS

**To listen to only the most recently recorded message**
After hearing a message, reset the unit (see instructions on p. 46, 47). Only messages recorded after resetting will be transferred.
If you do not reset the unit, all previous calls will be replayed when message TRANSFER takes place.

**To listen to all messages after returning home**
Switch off the TRANSFER mode (see next page). The unit will stop relaying messages to the remote telephone. All subsequent messages will be recorded, and can be listened to after you return home.

**If the TRANSFER call is cut off before you hear the message,** or if you are answering a paging device, wait about 1 minute (for the tape to rewind) before calling to hear the message.

**Message TRANSFER error**
If another call is received just as the unit begins to relay a call, the caller will hear a dial tone and a tweeting tone for 1 minute, after which the call will be disconnected. The TRANSFER will be aborted and tried again 60 minutes later.

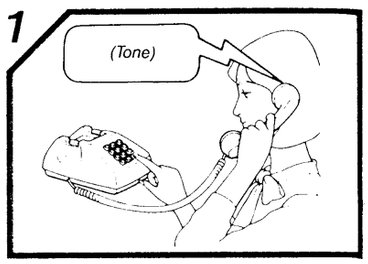
REM

To listen to a recorded message at an outside phone using the MESSAGE TRANSFER mode

# TO USE REMOTE CONTROL FEATURES FROM AN OUTSIDE PHONE

When you are out of the house, you can carry out the following remote control functions, using a pushbutton phone.

**FOR ALL FUNCTIONS, FIRST FOLLOW STEPS 1-4**

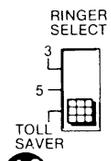



**Call your home phone using a pushbutton phone.**

Abbreviated instructions are written on the supplied Remote Control Card. "Don't leave without it!"

| | |
|---|---|
| **TO LISTEN TO RECORDED MESSAGES** | Press ✳ 1 |
| **TO REWIND IN-COMING MESSAGE TAPE** | Press ✳ 1 |
| **TO SELECT GREETING TYPE A** | Press ✳ 4 |
| **TO SELECT GREETING TYPE B** | Press ✳ 5 |
| **TO CHANGE (RE-RECORD) YOUR TYPE B GREETING** | Press ✳ 6 |
| **TO SWITCH OFF MESSAGE TRANSFER TAPE** | Press ✳ 7 |
| **TO SWITCH IN THE MESSAGE TRANSFER MODE** | Press ✳ 8 |
| **TO CHANGE THE MESSAGE TRANSFER PHONE NUMBER** (when you move to a different place) | Press ✳ 9 |

(Press buttons promptly; do not allow more



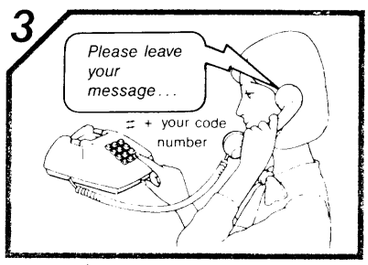

**To know if there are any messages recorded or not when you are out of the house—Toll saving function**

You can know if there are any messages recorded simply by counting the phone rings.

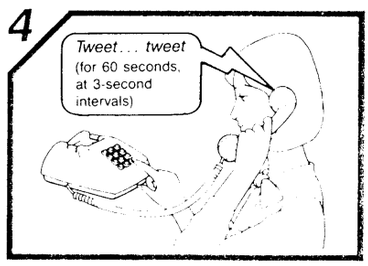
Set the RINGER SELECT switch at the bottom of the unit to "TOLL SAVER". If any message has been recorded, you will hear your Greeting after the phone rings three times.

If the phone rings more than three times, there is no message recorded. Replace your receiver immediately to save the toll. If you do not replace the receiver before the phone rings five times, you will hear your Greeting.

**You will hear your Greeting.**




**Press # and your code number while your Greeting is still playing.**
You will a "twee-tweet" tone when you are finished. If you do not hear the tone, enter # and your code number again.




**You will hear a tweeting tone. Before this tweeting tone is finsished select the function you want from the list below, and press the appropriate buttons.**

Tape will rewind. Playback will begin from the 1st message.
(Playback continues through the end of the last message.)

- If messages exceed 4 minutes, the tape will stop at 4 minute intervals. You will hear a tone. To continue listening, press ✳ 1 before the tone stops.
- To hear a section again, press ✳ 1 during playback. The tape will rewind a few seconds and play.
- Even if your call is cut off, no messages will be erased. Succeeding messages will be recorded after the last existing one.

Messages will be played back. To reset always play back all messages.
→ When you hear the tone "tweet... twee-tweet" (the end signal), press ✳ 3
→ The tape will be rewound to the beginning.
Succeeding messages will be recorded from the beginning of the tape.

Greeting Type A will be used. (see p. 23)

Greeting Type B will be used. (see p. 23)

Greeting Type A will be played back.
→ After playback, a tone will sound. When it finishes, record your new Type B Greeting. (60 sec. max.)
→ Press ✳ 6
The new Greeting will be used from now.

Always memorize a new message transfer telephone number.
An alarm will sound if you do not.

Enter the new message transfer telephone number.
Press to insert a 4-second pause in the dialing sequence.
→ Press ✳ 9
The main unit will automatically be set to the MESSAGE TRANSFER mode. If an alarm sounds, repeat the procedure from the beginning.

than a 2-second interval between buttons in a sequence.)

**After carrying out remote control functions**
**Phone calls cannot be received by the main unit for at least one minute.** Any calls coming in during this one-minute interval will not be connected. The caller will hear a busy signal.
Automatic redialing to the message transfer telephone number will not be carried out after remote control functions have been used.

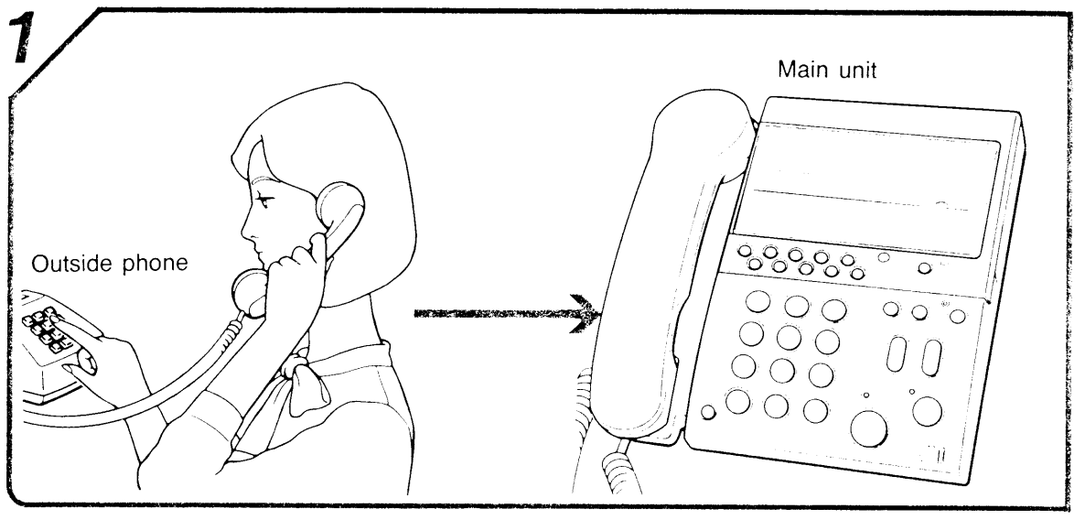
**Answering tones used for remote control functions**

| | |
|---|---|
| Your command has been received | Twee-tweet |
| Your command is an error | Twee-twee-twee (alarm tone) |
| Waiting for a command | Tweet. . .tweet (every 3 seconds) |

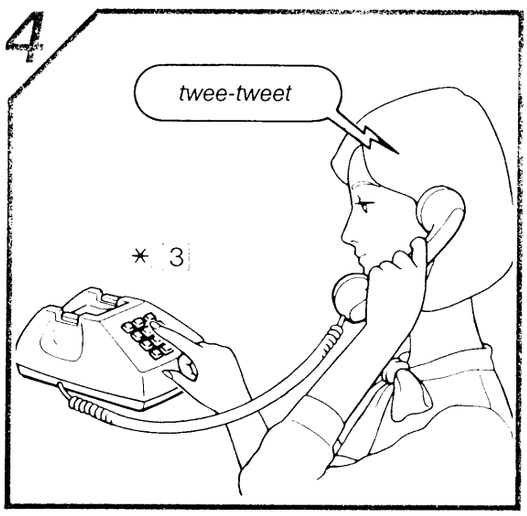
**If you rewind the in-coming message tape**
Note that the Greeting Type A will always be selected after rewinding the tape.

# REM TO SWITCH ON THE OUT MODE BY REMOTE

If you forget to set the phone to OUT when you go out, you can set it by remote control, using the following procedure.

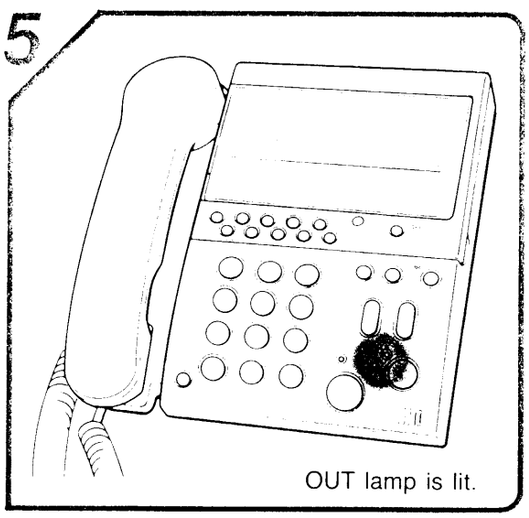



**Call your home phone.**
The phone will ring 10 times. Wait until it finishes.




**The tweeting tone will sound again. Before it stops, press ✳ 3**
You will hear a "twee-tweet" tone when you are finished.

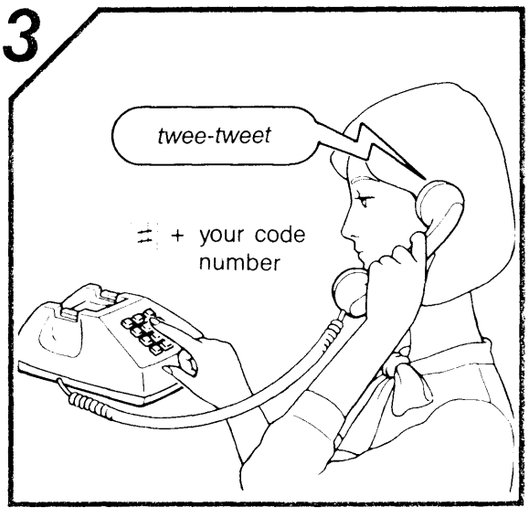
**If you're not in time...**
If you do not press # and your code number within 1 minute that the tweeting tone continues, your call will be cut off. Phone again.




**The main unit will switch to the OUT mode.**

**If no Greeting is recorded**
You cannot switch to the OUT mode.

**You will hear a tweeting tone.**
(approx. 1 minute)




**Before the tweeting tone ends, press # and your code number.**
Do not allow more than a 2-second interval between pressing each button. You will hear a "twee-tweet" tone when the code number is finished.

**The OUT mode is recommended**
If you do not set select the OUT mode when you go out, your callers may be inconvenienced. When they call, after your phone rings 10 times, the procedures illustrated in step 1, 2 will be carried out. The main unit will automatically answer the call, and the caller will hear the tweeting tone, but will be unable to record a message. In addition, the caller will be billed for the call. Therefore, we recommend selecting the OUT mode when you go out.

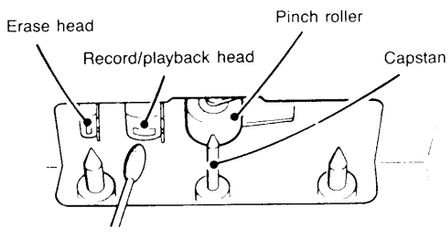
# MAINTENANCE

## HEAD CLEANING

Dirty tape heads will harm recording and playback quality, and may cause misfunctioning. Clean them regularly.
Open the lid and remove the Microcassette. Wipe the heads, the pinch roller and the capstan with a cotton swab slightly moistened in cleaning fluid or denatured alcohol. You can also use a soft cloth.

## CLEANING THE CASING

Clean the casing with a soft cloth slightly moistened with water or a mild detergent solution. DO NOT use solvents such as alcohol, benzine, or thinner, as they may mar the finish.




# SPECIFICATIONS

**SYSTEM**

System power source
14.5 V DC, 600 mA
(via supplied AC power adaptor)
Outgoing message (OGM)
Microcassette
A or B message selectable
Up to 60 sec. for each message
Incoming message (ICM)
MC-30 or MC-60 Microcassette
Recording time selectable
(CPC/60 SEC./VOX)
Remote control — Beeperless (using touch tone signal)
ICM playback, ICM reset, OGM selection, OGM B recording, TRANSFER selection, TRANSFER dial change
Tape deck — Logic-controlled dual cassette system with cue/review and quick erase
Call indicator — LED, flickers
Connection — Fully modular

**TELEPHONE**

Dial signal — 10 PPS (pulse), 20 PPS (pulse), tone selectable
Single action key dial
16 digits × 8
8 digits × 2
Redial — Single action redial 16 digits
Pause — Automatic pause for four seconds
Tone — Momentarily switched in pulse dial mode
Program — Used for memorizing on single action key

Weight — 1.4 kg (3 lb 2 oz) incl. handset cord, not incl. other accessories
Dimensions — Approx. 206 × 90 × 213 mm (w/h/d) ($8\frac{1}{8} \times 3\frac{5}{8} \times 8\frac{1}{2}$ inches)

Supplied accessories
Connecting cord (1)
Handset cord (1)
AC power adaptor (1)
Sony Microcassette MC-30 (1), MC-5 (1)

*Design and specifications subject to change without notice.*

# TROUBLESHOOTING (CONTINUED)

When the unit misfunctions, it may not necessarily be a major problem. Consult the following checklist before taking the phone for repairs.

| | | |
|---|---|---|
| General | Tape does not move | • Is the AC power adaptor plugged into a wall outlet? |
| | No sound from the speaker | • Is the VOLUME control slid all the way to the left? |
| Telephone | No dial tone | • Is the AC power adaptor plugged into a wall outlet? |
| | You are connected to the wrong number even though you dialed correctly. | • Is the DIALING MODE setting correct? See instructions on p. 8, 9. |
| | The dialing function does not operate when a power interruption occurs | • Are the batteries installed?<br>• Are the batteries weak? Replace the batteries. |
| | The automatic redialing function does not operate. | • Was the last number you dialed more than 16 digits?<br>• Did you dial manually? |
| | The automatic dialing function does not operate. | • Is there a memorized telephone number assigned to the memory button you pressed? |
| Recording Greetings | You cannot record properly | • Is the tape damaged? If so, insert a new Microcassette.<br>• Are the heads dirty or magnetized?<br>• Are you recording with your mouth close enough to the microphone? Make sure the distance is about 20 cm (5 in.).<br>• Is the OUT lamp lit? If so, press ■ STOP/IN.<br>• Is the LINE lamp lit? If so, hang up the receiver or press the ON/OFF button. |
| | Tape stops during recording | Is your Greeting more than 60 seconds? |
| | An alarm sounds when you press the OGM button (to play back Greetings) | Is the correct Microcassette inserted in the compartment? |

| | | |
|---|---|---|
| Recording callers' messages in the OUT mode | An alarm sounds after the OUT button is pressed. | • Is the tape damaged? If so, insert a new Microcassette.<br>• Did you record a Greeting on the Out-Going Message tape? |
| | The unit answers calls, but does not record messages | • Is the space for recording messages on the In-Coming Message tape used up? If so, either: a) listen to all messages and then select the OUT mode, b) flip over the In-Coming Message tape or c) insert a new tape. |
| | Greeting Type B is played back, although you selected Type A. | • Is the space for recording In-Coming Messages used up? If so, listen to all messages and then press the OGM B button until the OGM B indicator lamp goes off. (see p. 24) |
| | The unit stops recording before the caller finishes giving his messsage. | • The following problems are possible:<br>*The ICM REC TIME select switch is set to 60 SEC, and the caller's message is longer than 60 seconds.<br>*The callers voice level is too low.<br>*The telephone connection is not good. |
| | A caller's message has been recorded, but the OUT lamp does not flash. | • The message is probably shorter than 4 seconds. |
| | An alarm sounds when you try to switch to the MESSAGE TRANSFER mode. | • Did you remember to memorize a message transfer telephone number?<br>• Did you use the correct button to memorize the message transfer telephone number? (see p. 42) |

| | | |
|---|---|---|
| Remote Control | An alarm sounds when you enter your code number. | • Did you enter the correct number? |
| | The "twee-tweet" tone does not sound. | • Are you calling from a pushbutton (tone-type) phone?<br>• Did you enter # and the code number while the Greeting was still being played back?<br>• Your connection may not be good. Try entering # and your code number again. |
| | Your call is cut off before you send your command. | • Did you enter your command within 1 minute after the "twee-tweet" tone? |
| | An alarm sounds when you try to switch to MESSAGE TRANSFER mode. | • Did you remember to memorize a message transfer telephone number? |
| | Remote control functions cannot be performed. | • Did you forget to select the OUT mode when you went out? If so, select it by remote control. (see p. 26, 48)<br>• Did you let the phone ring 10 times? |

| | | |
|---|---|---|
| Other | The OUT lamp flashes rapidly (error message). | • Is a tape without your Greetings recorded inserted in the right-side compartment? If so, press ■ STOP/IN and insert the correct tape.<br>• Did someone manually operate the main unit while you were carrying out remote control operations? If so, press ■ STOP/IN.<br>• Did you attempt to record a conversation while in the OUT mode (with the OUT lamp lit)? If so, press ■ STOP/IN and then IN/OUT to switch off the OUT mode. |